CONTRACT DRAWINGS FOR:

WASTE WATER TREATMENT PLANT IMPROVEMENTS

WENATCHEE PROJECT: 0913 - WWTP ODOR CONTROL, VISUAL MITIGATION AND SCREENING IMPROVEMENT

WENATCHEE, WASHINGTON **APRIL 2014**



RECORD DRAWINGS

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			DRAWN	B. LILLY
1	APR 2014	RECORD DRAWINGS	CHECKED	J. KOCH
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

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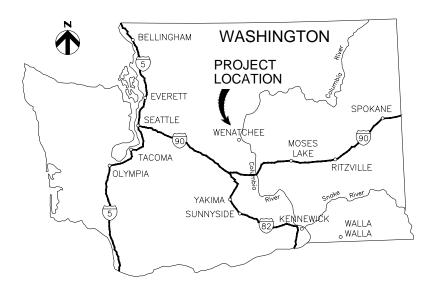


WASTE WATER TREATMENT **PLANT IMPROVEMENTS**





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REGIONAL MAP WASHINGTON STATE





VICINITY MAP CENTRAL WASHINGTON STATE

WASTE WATER TREATMENT PLANT LOCATION MAP



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GENERAL REGIONAL, VICINITY AND LOCATION MAPS

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SCALE	NOT TO SCALE

DESIGN WASTELOAD	05	AERATION BASINS						AERATION BASINS (CONTIN	UED)		INFLUENT SCREENS	
FLOW (MGD)		NUMBER OF UNITS	2					ANOXIC MIXERS			NUMBER OF UNITS	2
AVERAGE ANNUAL	5.0	VOLUME, EACH (MG)		LENGT	H WIDTH	SWD		AERATION ZONE	А		TYPE	PERFORATED PLATE
MAXIMUM MONTH	5.5	7015	0.005	4.0	0.5	4.5		NUMBER PER AERATION ZONE	1		DEALE SIN WITH A SORESH W SERVICE	SCREEN
MAXIMUM WEEK	5.8	ZONE A	0.065	18	35	15		HORSEPOWER	5		PEAK FLOW WITH 1 SCREEN IN SERVICE	15 MGD
MAXIMUM DAY	7.1	ZONE B	0.108	28	35	15		MIXED LIQUOR RECIRCULATION PU	UMPS		SCREENING CHANNEL DEPTH (FT)	5
PEAK (1)	11.0	ZONE C	0.216	56	35	15		NUMBER PER AERATION BASIN	1		SCREENING CHANNEL WIDTH (FT)	3
	HEADWORKS. FLOW EXCEEDING 11	ZONE D	0.151	40	35	15		TYPE	SUBMERSIBLI	E PROPELLER	WATER DEPTH DOWNSTREAM OF SCREEN	` '
MGD ARE PUMPED TO FLOW	V EQUALIZATION BASIN.	TOTAL	0.54					CAPACITY	3,800 GPM @	1.8 FT TDH	AVERAGE FLOW	0.5
INFLUENT		WASTEWATER TEMPERATURE						HORSEPOWER	10		PEAK FLOW (FT)	2
BOD (LBS/DAY)		SUMMER	20					SECONDARY CLARIFIERS			MAXIMUM HEAD LOSSES ACROSS SCREET	` ,
AVERAGE ANNUAL	11,900	WINTER	15					NUMBER OF UNITS	2		FOR CLEAN WATER	0.8
MAXIMUM MONTH	13,000	SOLIDS RETENTION TIME (DAYS	3)					DIAMETER	80 FT		50% BINDING FACTOR	1.2
MAXIMUM WEEK	14,300	SUMMER	4.5					TYPE	SPIRAL RAKE		SCREEN PANEL PERFORATION DIAMETER	6 MM
MAXIMUM DAY	20,500	WINTER	6.5					OVERFLOW RATE (GAL/FT2/DAY)	OF ITAL ITARL		SCREENINGS WASHER/ COMPACT	TOR
TSS (LBS/DAY)		MLSS						AVERAGE	550		NUMBER OF UNITS	2
AVERAGE ANNUAL	11,800	SUMMER						PEAK	1,100		MIN. COMPACTED SCREENINGS VOLUME	10 (CF/DAY)
MAXIMUM MONTH	13,100	PLUG FLOW	3,300					SOLIDS LOADING RATE (LBS/FT2/D/			MIN. SCREENINGS VOLUME REDUCTION	70%
MAXIMUM WEEK	15,400	STEP FEED	2,400					,		DEAK	MIN. REMOVAL OF ORGANIC CONSTITUEN	
MAXIMUM DAY	19,700	WINTER						SUMMER	MAX. MO.	PEAK	MIN. SCREENINGS WEIGHT REDUCTION	60%
TKN (LBS/DAY)	- 1	PLUG FLOW (2)	3,700					PLUG FLOW	23	45	MINIMUM SOLID CONCENTRATION	50%
AVERAGE ANNUAL	1,200	STEP FEED	3,300					STEEP FEED	16	33	BIOFILTER	
MAXIMUM MONTH	1,800	ACTUAL OXYGEN	ZONE A	ZONE	B ZONE	C ZONE D	TOTAL	WINTER				04.000
MAXIMUM WEEK	2,000	REQUIREMENTS (AOR) (SUM OF						PLUG FLOW	25	51	DESIGN TREATMENT FLOW RATE (SCFM)	21,000
MAXIMUM DAY	2,600	TWO BASINS) (LBS/DAY) (4)						STEEP FEED	23	45	REMOVAL EFFICIENCY	
	2,000	SUMMER						SVI	150		HYDROGEN SULFIDE	
PRIMARY EFFLUENT		PLUG FLOW (3)	N/A	3,900	5,400	2,800	12,100	RETURN ACTIVATED SLUDG	E PUMPS		CONCENTRATION > 10 PPMV	99% REMOVAL
BOD (LBS/DAY)		STEP FEED	2,200	3,000	4,900	3,100	13,200	NUMBER OF UNITS	2		CONCENTRATION < 10 PPMV	DISCHARGE LESS THA
AVERAGE ANNUAL	7,120	WINTER						TYPE	VERTICAL SE	WAGE PUMPS	CONCENTRATION < 10 PPWV	100 PPBV
MAXIMUM MONTH	7,959	PLUG FLOW (2),(3)	N/A	3,100	4,500	2,700	10,300	CAPACITY, EACH (GPM)	1,900 @ 26 FT		AMMONIA	10011 BV
MAXIMUM WEEK	9,440	STEP FEED	2,400	3,000	4,900	3,100	13,400			TO EACH CLARIFIER		90% REMOVAL
MAXIMUM DAY	14,550	ALPHA	0.7	0.5	0.6	0.7				IC ACTUATORS TO		DISCHARGE LESS THA
TSS (LBS/DAY)		AIR REQUIREMENTS (SUM OF	ZONE A	ZONE	B ZONE	C ZONE D	TOTAL	_	CONTROL RA		OCHOENTIAN COUTTINI	PPMV
AVERAGE ANNUAL	4,100	TWO BASINS) (SCFM) (4)							ADJUSTABLE	SPEED PUMP	LAYER THICKNESS (IN)	
MAXIMUM MONTH	5,210								DRIVES.		PLENUM ZONE	12
MAXIMUM WEEK	5,510	SUMMER						UV DISENFECTION			SOIL FILTER MEDIA	36
MAXIMUM DAY	7,320	PLUG FLOW (3)	N/A	1,500	1,700	800	4,000	NUMBER OF CHANNELS	3		COVER ROCK	3
TKN (LBS/DAY)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	STEP FEED	1,800	1,200	1,600	850	5,450	CAPACITY PER CHANNEL (MGD)	5.5		FOUL AIR FANS	
AVERAGE ANNUAL		WINTER				'		TRANSMITTANCE, MINIMUM	50%		FAN AND OPERATING POINT	
MAXIMUM MONTH		PLUG FLOW (2),(3)	N/A	850	1,700	1,000	3,550	NPDES FECAL COLIFORM - 30 DAY	200 / 100 mL			4 605 SCEM @ 2 IN W C
MAXIMUM WEEK		STEP FEED	1,900	1,200	1,600	850	5,550	UV DOSAGE, uWs/cm2	40,000		DEWATERING FAN	4,605 SCFM @ 2 IN W.C
MAXIMUM DAY		DIFFUSERS									TRUCK LOADOUT FAN	6,440 SCFM @ 2.25 IN W
		TYPE OF BUBBLE	COARS	E FINE	FINE	FINE		RAW SEWAGE PUMPS - VER	RTICAL DRY	PIT NON-CLOG		2,270 SCFM @ 2 IN W.C
FLOW EQUALIZATION	N BASIN							NO. 1 & 2	3,150 GPM @	47 FT TDH	PRIMARY AREA FAN	1,835 SCFM @ 2 IN W.C
NUMBER OF UNITS	1	NUMBER, TOTAL	200	1,000	1,130	670		NO. 3	2,000 GPM		BIOFILTER FAN (A)	10,435 SCFM @ 9 IN W.0
VOLUME	1.7 MILLION GALLONS BELOW EL	SCFM/DIFFUSER (4)	10	1.5	1.5	1.5		NO. 4	2,500 GPM		BIOFILTER FAN (B)	10,435 SCFM @ 9 IN W.0
	639.0 (NAVD 88)	(2) CAPACITY FOR 4.5 MGD AT MAX	KIMUM MC	NTH INFL	UENT BO	D AND TS	S	NO. 5	5,500 GPM		NON-POTABLE WATER PUMPS	
FLOW EQUALIZATION EFI		CONCENTRATION.						NO. 6	6,000 GPM		NUMBER OF UNITS	2
TYPE	SUBMERSIBLE	(3) ANOXIC CONDITIONS IN ZONE A						NO. U	0,000 GPIVI		TYPE	NON-CLOG CENTRIFUC
CAPACITY	700 GPM @ 31 FT TDH	(4) AVERAGE AT MAXIMUM MONTH	INFLUEN	T WASTE	LOAD.						CAPACITY	325 GPM @ 180 FT TDH
HORSEPOWER	10										HORSEPOWER	25
PRIMARY CLARIFIER	S	AERATION BLOWERS										
NUMBER OF UNITS	2	TYPE	MULTIP	LE STAGE	E CENTRI	FUGAL						
	1-65 FT, 1-80 FT	NUMBER OF UNITS	3									
DIAMETER		CAPACITY	5,500 S	CFM @ 8.	8 PSIG							
DIAMETER OVERELOW RATE (GAL/F	T2/DAY)										1	
OVERFLOW RATE (GAL/F		HORSEPOWER	300								NOTE:	
	T2/DAY) 600 1,320			HROTTLII	NG						NOTE: ALL GRAYED OUT INFORMATION IS CONSIDERED TO BE EX	XISTING OR PREVIOUSLY DEFINED.



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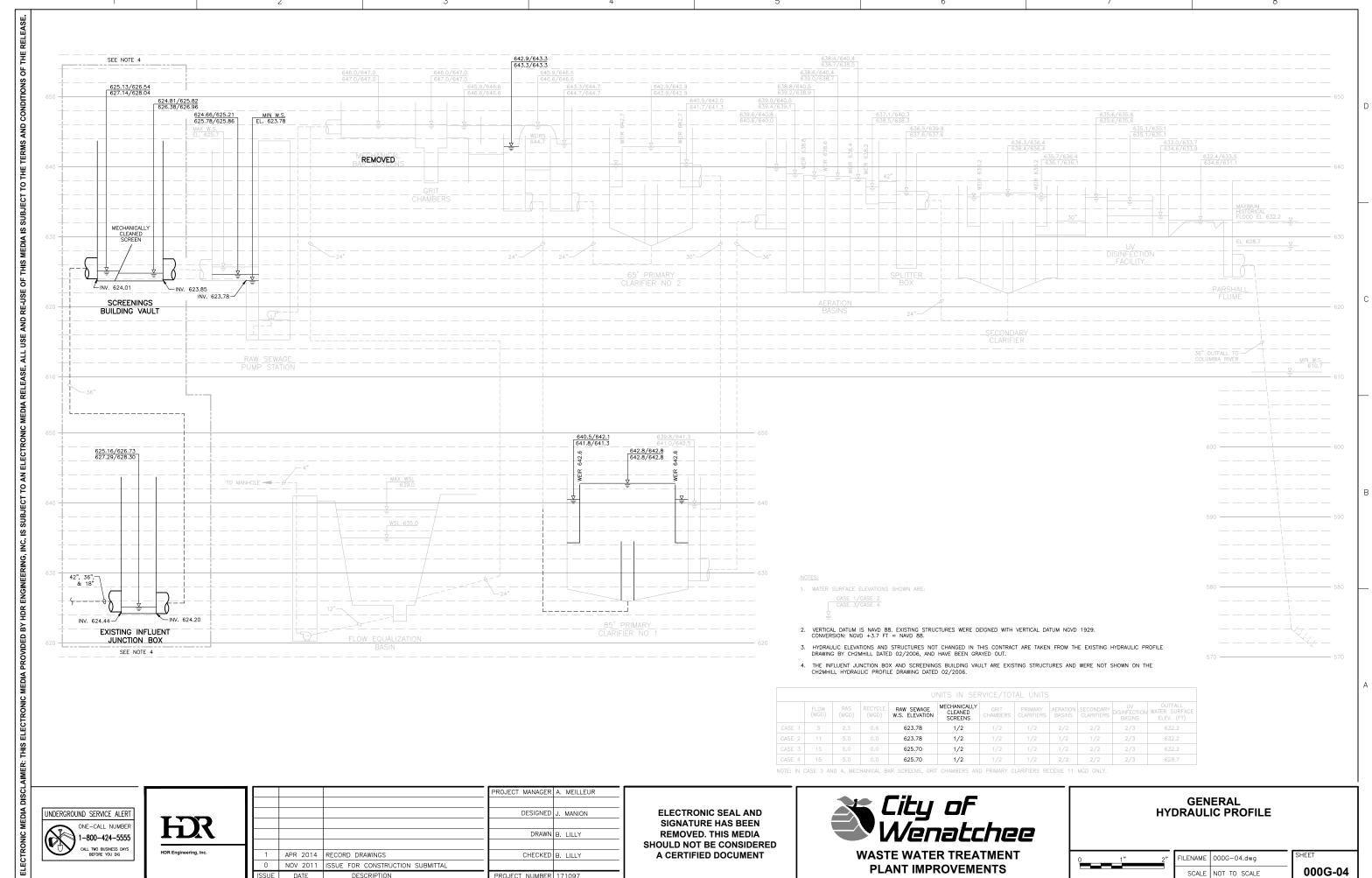
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DESCRIPTION

PROJECT NUMBER 171097

A/C A/E	AIR CONDITIONING ARCHITECT/ENGINEER	CLG CLKG	CEILING CAULKING	F TO F FACE 1	OR, EXTERNAL, EXTENSION TO FACE	HZ ID	HERTZ, CYCLES PER SECOND INSIDE DIAMETER, INTERIOR DIMENSION	N NA	NORTH, NEUTRAL NOT APPLICABLE	R&R R&S	REMOVE AND REPLACE REMOVE AND SALVAGE	ТОВ	TOP OF BOLT, TOP OF BANK, TOP OF BEAM, TOP OF BERM
RELEASE. A /C A /E AB ABAN	AMPERE ANCHOR BOLT ABANDON	CLR CMH CMP	CLEAR COMMUNICATION MANHOLE CORRUGATED METAL PIPE		AND BYPASS CATE	IE IF	INVERT ELEVATION, FOR EXAMPLE INSIDE FACE INTAKE HOOD	NAT NC NEG	NATURAL, NATIONAL NORMALLY CLOSED NEGATIVE	R RA RB	RADIUS, REGISTER, RISER RETURN AIR RESILIENT BASE, ROCK BERM	TOC TOD	TOP OF CURB, TOP OF CONCRETE TOP OF DUCT TOP OF FOOTING
H ABC ABT	AGGREGATE BASE COURSE ABOUT	CMU CO	CONCRETE MASONRY UNIT CLEANOUT, CONCRETE OPENING	FBD FIBERB FBG FIBERG	BOARD BLASS	IMP IMP	IMPACT INCH	NF NIC	NEAR FACE, NON-FUSED NOT IN CONTRACT	RCPT RD	RECEPTACLE ROOF DRAIN	TOC TOD TOF TOG TOL TOM TOP	TOP OF GRATING TOLERANCE, TOP OF LEDGER
占 I AC	ALTERNATING CURRENT ACKNOWLEDGE	COL	COLUMN COMMON	FBM BOARD FBO FURNIS) FOOT MEASURE SHED BY OWNER	INC INF	INCLUDE, INCANDESCENT INFLUENT	NO NOM	NORMALLY OPEN, NUMBER NOMINAL	REC RECD	RECESS RECEIVED	TOM TOP	TOP OF MASONRY TOP OF PLATE
ACP ACST	ACOUSTIC CEILING PANEL, ASPHALTIC CONCRETE PAVEMENT ACOUSTIC	COMB COMM COMP	COMBINATION COMMUNICATION COMPOSITION, COMPRESSIBLE,		ING CONNECTION ED COUPLING ADAPTER	INSTR INSUL INT	INSTRUMENTATION INSULATION INTERIOR, INTERSECTION	NPS NPT NS	NOMINAL PIPE SIZE NATIONAL PIPE THREAD NEAR SIDE	RECT RED REF	RECTANGULAR REDUCER REFERENCE	TOPO TOS	TOPOGRAPHY TOP OF SLAB, TOP OF STEEL, TOE OF SLOPE
AD ADDL	ADDENDUM, AREA DRAIN ADDITIONAL	CON	COMPOSITE CONCENTRIC	FDC FLEXIBI	LE DUCT CONNECTION R	INTR INV	INTERIOR, INTERSECTION INTERMEDIATE, INTERIOR INVERT	NTS NWL	NOT TO SCALE NORMAL WATER LEVEL	REINF REM	REINFORCING REMOVE	TOW TP	TOP OF WALL TOILET PARTITION, TELEPHONE POLE,
ADH ADJ	ADHESIVE ADJUSTABLE, ADJACENT	CONC	CONCRETE CONNECTION	FDTN FOUND. FE FLANGE	ATION ED END	IPS IPT	IRON PIPE SIZE INTERNAL PIPE THREAD	о то о	OUT TO OUT	REQD RESIL	REQUIRED RESILIENT	TPD	TOE PLATE, TRAP PRIMER TOILET PAPER DISPENSER
AFF AFG	AMP FRAME, AMP FUSE ABOVE FINISH FLOOR ABOVE FINISH GRADE	CONST CONT COOR	CONSTRUCTION CONTINUOUS COORDINATE	FES FLARED	XTINGUISHER CABINET D END SECTION XTINGUISHER	IR IRR ISO	INSIDE RADIUS, IRON ROD IRRIGATION ISOMETRIC	OA OC OCPD	OUTSIDE AIR, OVERALL ON CENTER OVER CURRENT PROTECTION DEVICE	RET REV RF	RETAINING, RETURN REVISION, REVERSE RESILIENT FLOORING	TPG TR TRANS	TOPPING, THROUGH PLATE GIRDER TRANSOM TRANSITION
AGGR AI	AGGREGATE AREA INLET, ANALOG INPUT	CORR CP	CORROSIVE, CORRUGATED CHECKER PLATE, CONTROL POINT	FF FAR FA FG FINISHE	ACE, FACTORY FINISH, FLAT FACE ED GRADE	JB	JUNCTION BOX	OD OED	OUTSIDE DIAMETER OPEN END DUCT	RFG RFL	ROOFING REFLECTED, REFLECTOR	TRD TYP	TRENCH DRAIN TYPICAL
E AIC	AMPS INTERRUPTING CAPACITY ALIGNMENT	CPLG CRL	COUPLING CORROSION-RESISTANT LINING	FH FIRE H FIG FIGURE	IYDRANT	JCT JF	JUNCTION JOINT FILLER	OF OFCI	OUTSIDE FACE, OFFICE FURNISHING OWNER FURNISHED CONTRACTOR	RGH RGS	ROUGH RIGID GALVANIZED STEEL	U	URINAL
P ALUM	ALTERNATE, ALTITUDE ALUMINUM ACOUSTICAL MATERIAL	CSC CSK CSS	COMPRESSION SLEEVE COUPLING COUNTERSINK CLINIC SERVICE SINK	FIN FINISH FJT FLUSH FL FLOW,	JOINT FLOW LINE	JST JT	JOIST JOINT	OFOI OG	INSTALLED OWNER FURNISHED OWNER INSTALLED ORIGINAL GROUND	RGS-PVC RH	PVC COATED RGS RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY	UG ULT UNFN	UNDERGROUND ULTIMATE UNFINISHED
AMB ANC	AMBIENT ANCHOR	CT CTJ	CERAMIC TILE CONTRACTION JOINT	FLEX FLEXIBI	LE E	K KB	KIP KNEE BRACE	OH OPNG	OVERHEAD OPENING	RL RLFA	REQUIRED LAP RELIEF AIR	UNO	UNLESS NOTED OTHERWISE UTILITY
	ANALOG OUTPUT ACCESS PANEL	CTR CTRL	CENTER CONTROL	FLOR FLUORE FLR FLOOR	ESCENT	KCMIL KD	THOUSAND CIRCULAR MILS KNOCK DOWN	OPP OPT	OPPOSITE OPTIONAL	RND RNG	ROUND RUNNING	V	VENT, VELOCITY, VOLT
APRX APVD ARCH	APPROXIMATE APPROVED ARCHITECTURAL	CVT CU CW	CULVERT COPPER, CUBIC CLOCKWISE	FN FENCE	ING, FLUSH ED OPENING	KO KSI KW	KNOCK OUT KIPS PER SQUARE INCH KILOWATT	OR ORD ORIG	OUTSIDE RADIUS OVERFLOW ROOF DRAIN ORIGINAL	RO ROW RPM	ROUGH OPENING RIGHT-OF-WAY REVOLUTIONS PER MINUTE	VA VAC VAR	VOLT AMPERE VACUUM VARNISH, VARIABLE,
₩ ASSY	ASSEMBLY ACOUSTICAL TILE, AMP TRIP	CY	CUBIC YARD	FOB FLAT C	ON BOTTOM OF CONCRETE, FACE OF CURB	L	ANGLE, LENGTH, LAVATORY, LINTEL	OVFL OVHG	OVERFLOW OVERHANG	RR RSP	RAILROAD ROCK SLOPE PROTECTION	VB VAR	VOLT AMPERES RÉACTIVE VAPOR BARRIER, VINYL BASE,
ATC ATM	ACOUSTICAL TILE CEILING ATMOSPHERE	d D	PENNY (NAIL MEASURE) DEEP, DIFFUSER, DRAIN	FOF FACE (OF FINISH OF MASONRY	LAD LAM	LADDER LAMINATE	OZ	OUNCE	RST RSW	REINFORCING STEEL RECIRCULATING SCRUBBER WAT	ER VC	VALVE BOX VERTICAL CURVE
AUTO AUX AVE	AUTOMATIC AUXILIARY AVENUE	DB DBA DBL	DUCT BANK, DECIBEL, DRY BULB DEFORMED BAR ANCHOR DOUBLE	FOT FLAT C	OF STUDS ON TOP E PIPE THREAD	LATL LB LCTB	LATERAL LAG BOLT, POUND LIQUID CHALK AND TACK BOARD	P PA PAR	PAINT PUBLIC ADDRESS PARALLEL, PARAPET	RT RVT RY	RIGHT RESILIENT VINYL TILE READY	VCP VCT	VITRIFIED CLAY PIPE VINYL COMPOSITION TILE, VERTICAL CENTERLINE
AVG AWG	AVERAGE AMERICAN WIRE GAGE	DC DEG	DIRECT CURRENT DEGREE	FR FRAME FRP FIBERG	CLASS REINFORCED PLASTIC	LDG LDR	LANDING LEADER	PB PBD	PANIC BAR, PULL BOX PARTICLE BOARD	s	SOUTH, SINK	VEL VENT	VELOCITY VENTILATION
B TO B	ACOUSTICAL WALL TILE	DEG C DEG F	DEGREE CENTIGRADE DEGREE FAHRENHEIT	FS FLOOR	ETARDANT TREATED MATERIAL SINK, FAR SIDE	LE LF	LIFTING EYE LINEAR FOOT	PC PCC	POINT OF CURVE, PIECE, PRECAST POINT OF COMPOUND CURVATURE	SA SAMU	SUPPLY AIR SOUND-ABSORBING MASONRY		
BBD BBD	BACK TO BACK BALANCE BULLETIN BOARD	DEMO DEP DEPT	DEMOLITION DEPRESSED DEPARTMENT		FOOT IG, FITTING D, FURRING	LG LH LIN	LONG LEFT HAND LINEAR	PCF PCT PE	POUNDS PER CUBIC FOOT PERCENT PLAIN END	SAN SB SC	SANITARY SPLASH BLOCK SOLID CORE	VG VIF VIN	VERTICAL GRAIN VERIFY IN FIELD VINYL
∃ [™]	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE	DET DI	DETAIL DROP INLET, DUCTILE IRON, DIGITAL INPUT	FURN FURNIT	TURE, FURNISH E	LIQ LLH	LIQUID LONG LEG HORIZONTAL	PED PEN	PEDESTAL PENETRATION	SCH SCHEM	SCHEDULE SCHEMATIC	VOL VPC	VOLUME VERTICAL POINT OF CURVATURE
	BOARD BOTH ENDS, BELL END	DIA DIAG	DIAMETER DIAGONAL, DIAGRAM	FV FACE \ FW FIELD \	VELOCITY WELD, FIRE WALL	LLV LMLU	LONG LEG VERTICAL LIQUID MARKER LECTURE UNIT	PERF PERM	PERFORATED PERMANENT	SCN SE	SCREEN STEEL/ALUMINUM EDGE	VPI VPT	VERTICAL POINT OF INTERSECTION VERTICAL POINT OF TANGENCY
RELEASE. BE BE BKG	BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET BITUMINOUS	DIFF DIM DISCH	DIFFERENTIAL, DIFFERENCE DIMENSION DISCHARGE	FWD FORWA FWE FURNIS FXTR FIXTUR	SHED WITH EQUIPMENT	LNG LOC LP	LONGITUDINAL LOCATION LOW POINT	PERP PF PFMU	PERPENDICULAR POWER FACTOR PREFACED MASONRY UNIT	SEC SECT SEP	SECONDARY, SECONDS SECTION SEPARATE	VS VTR VWC	VERSUS, VAPOR SEAL VENT THROUGH ROOF VINYL WALL COVERING
⊴ BL	BACKING BASE LINE	DIST DIV	DISTANCE, DISTRIBUTION DIVISION	G GRILLE,	, GROUND	LPS LR	LOW-PRESSURE SODIUM LONG RADIUS	PH PI	PHASE POINT OF INTERSECTION	SF SG	SQUARE FOOT, SILT FENCE SHEET GLASS, SEALANT GROOV	E W/	WITH
₩ BLK	BUILDING BLOCK BLOCKING	DL DMJ	DEAD LOAD DOUBLE MECHANICAL JOINT	GAL GALLON		LT LTD	LEFT LIMITED	PKG PL	PACKAGE PLATE, PROPERTY LINE,	SH SHT SHTG	SHOWER SHEET SHEATHING	w/o w	WITHOUT WATT, WEST, WIDE, WINDOW, WIRE,
BOD BOD BLKG	BLOCKING BENCHMARK, BEAM BOTTOM OF	DMPF DN DO	DAMP PROOFING DOWN DISSOLVED OXYGEN, DIGITAL OUTPUT, DITT		NIZED BAR, GRADE BREAK ÆD COUPLING	LTG LTL LTNG	LIGHTING LINTEL LIGHTNING	PLAS PLAT	PRECAST LINTEL PLASTER PLATFORM	SHTG SIL SIM	SHEATHING SILENCE SIMILAR	WB WC	WIDE FLANGE BEAM WOOD BASE WATER CLOSET, WATER COLUMN
BOD BOC	BACK OF CURB BOTTOM OF DUCT	DP DPDT	DEPTH DOUBLE POLE, DOUBLE THROW	GD GUARD GEN GENERA) AL	LV LVL	LOW VOLTAGE LAMINATED VENEER LUMBER	PLBG PLF	PLUMBING POUNDS PER LINEAR FOOT	SJ SL	SLAB JOINT SLOPE, STEEL LINTEL	WD WF	WOOD, WIDTH WIDE FLANGE, WASH FOUNTAIN
BOC BOC	BOTTOM OF GRILLE BOTTOM OF LOUVER, BOLLARD	DPST DS	DOUBLE POLE, SINGLE THROW DOWN SPOUT	GFMU GROUN	ID FAULT CIRCUIT INTERRUPTER ID FACE MASONRY UNIT	LVR LW	LOUVER LIGHTWEIGHT	PNEU POL	PNEUMATIC POLISH	SLTD SLV	SLOTTED SLEEVE	WG WH	WIRE GLASS, WATER GAGE WALL HYDRANT, WEEP HOLE
BOP BOR BOT	BOTTOM OF PIPE BOTTOM OF REGISTER BOTTOM	DT DUP DWG	DOUBLE TEE, DRIP TRAP ASSEMBLY DUPLICATE DRAWING		R GRADE /ED JOINT	LWC LWL	LIGHTWEIGHT CONCRETE LOW WATER LEVEL	POS PP PRC	POSITIVE, POSITION POLYPROPYLENE, POWER POLE POINT OF REVERSE CURVATURE	SMLS SOG SP	SEAMLESS SLAB ON GRADE SOUNDPROOF, STANDPIPE	WI WL WLD	WROUGHT IRON WATER LEVEL WELDED
BOU	BOTTOM OF UNIT BASE PLATE	DWL DWR	DOWEL DRAWER	GLB GLASS GND GROUN	BLOCK, GLULAM BEAM ID	MA MACH	MIXED AIR MACHINED	PREF PREFAB	PREFINISHED PREFABRICATED	SPA SPEC	SPACING SPECIFICATION	WM WP	WIRE MESH WEATHERPROOF
SUBPECT BP BRG BRGP BRKT	BEARING BEARING PLATE	E,	EAST FACILITY AID	GP GUY PO GR GRADE	OLE	MAINT MAN	MAINTENANCE MANUAL	PRELIM PREP	PRELIMINARY PREPARE	SPLY SPST SPT	SUPPLY SINGLE POLE SINGLE THROW	WS WSCT	WATERSTOP, WATER SURFACE WAINSCOT
≅ B≥	BRACKET BOTH SIDES BRITISH THERMAL UNIT	EA EC ECC	EACH, EXHAUST AIR ELECTRICAL CONTRACTOR ECCENTRIC	GRTG GRATIN GSB GYPSUI GT GREASI	NG M SHEATHING BOARD E TRAP	MATL MAX MB	MATERIAL MAXIMUM MACHINE BOLT	PRES PRI PROP	PRESSURE PRIMARY PROPERTY, PROPOSED	SPI SQ SR	SET POINT SQUARE SHORT RADIUS	WT WTHP WWF	WEIGHT, WATER TIGHT WATERPROOF, WORKING POINT WELDED WIRE FABRIC
BTWLD	BETWEEN BUTT WELD	ED EDB	EQUIPMENT DRAIN ELECTRICAL DUCT BANK	GVL GRAVEI GW GUY W	L /IRE	MBR MC	MEMBER MECHANICAL CONTRACTOR,	PROT PS	PROTECTION PIPE SUPPORT	SS SST	SERVICE SINK STAINLESS STEEL	XP	EXPLOSION-PROOF
BUR BUR BW	BELL UP, BUILT-UP BUILT-UP ROOFING BOTH WAYS	EE EF	EACH END EACH FACE	GWB GYPSUI GYP GYPSUI	M WALLBOARD M HARDBOARD	мсв	MECHANICAL COUPLING, MOMENT CONNECTION METAL CORNER READ	PSF PSI PSIA	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE	ST STA	STREET STATION STANDARD	XS XSECT	EXTRA STRONG CROSS SECTION DOUBLE EXTRA STRONG
ENGINEERING' INC. BUTWLD BUR BUR BYP C TO C C&G	BYPASS	EFF EHH EIFS	EFFLUENT, EFFICIENCY ELECTRICAL HANDHOLE EXTERIOR INSULATION &	H HIGH HB HOSE E	BIBB	MC1 MCB	METAL CORNER BEAD MASONRY CONTROL JOINT MODIFIED DOUBLE MECHANICAL JOINT	PSIA PSIG PST	POUNDS PER SQUARE INCH GAGE PRESTRESSED	STD STIF STIR	STANDARD STIFFENER STIRRUP	XXS	DOUBLE EXTRA STRONG YARD HYDRANT
	CENTER TO CENTER CURB AND GUTTER	EJ	FINISH SYSTEM EXPANSION JOINT	HBD HARDB HC HANDIO	BOARD CAPPED, HOLLOW CORE, HORIZONTAL	MECH MED	MECHANICAL MEDIUM	PT PTN	POINT, POINT OF TANGENCY PARTITION	STL STOR	STEEL STORAGE	YS	YIELD STRENGTH
CAB	CHANNEL SHAPE, CENTIGRADE, CONDUIT CABINET CAPACITY	EL ELEC EMBD	ELBOW, ELEVATION ELECTRICAL EMBEDDED		, HORIZONTAL CENTERLINE HOT DIP R	MFR MH MIN	MANUFACTURER MANHOLE, METAL HALIDE MINIMUM	PVC PVMT	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE PAVEMENT	STR SUB SUC	STRUCTURAL, STRAIGHT SUBSTITUTE SUCTION		
CAT	CAPACITY CATALOG, CATALOGIORY CAVITY	EMER EMH	EMBEDDED EMERGENCY ELECTRICAL MANHOLE	HDW HARDW HEX HEXAG	VARE .	MIR MIR MISC	MINIMUM MIRROR MISCELLANEOUS	PWD PWJ	PAVEMENT PLYWOOD PLYWOOD WEB JOIST	SUSP SY	SUCTION SUSPENDED SQUARE YARD	<u>GENI</u>	ERAL NOTES:
₽ CB CCB	CATCH BASIN CONCRETE BLOCK	ENCL ENGR	ENCLOSURE ENGINEER	HGR HANGEI HH HANDH	R HOLE	MJ ML	MECHANICAL JOINT MASONRY LINTEL	PZ	PIEZOMETER	SYM SYMM	SYMBOL SYMMETRICAL		SE ABBREVIATIONS APPLY TO THE ENTIRE SET
CCW CDF CE	COUNTER CLOCKWISE CONTROLLED—DENSITY FILL CONCRETE EDGE	ENTR EOP EQ	ENTRANCE EDGE OF PAVEMENT EQUAL		INTENSITY DISCHARGE W METAL DNITAL	MLO MMB MO	MAIN LUGS ONLY MEMBRANE MASONRY OPENING	Q QT QTR	RATE OF FLOW QUARRY TILE QUARTER	SYN SYS	SYNTHETIC SYSTEM		CONTRACT DRAWINGS. TING OF ABBREVIATIONS DOES NOT IMPLY THAT
CER CF	CERAMIC CUBIC FEET (FOOT)	EQUIP EQUIV	EQUIPMENT EQUIVALENT	HP HIGH P	POINT, HORSEPOWER ONTAL POINT OF CURVATURE	MOD MON	MODULAR, MODIFY MONUMENT	QTY QUAL	QUANTITY QUALITY	T&B T&G	TOP AND BOTTOM TONGUE AND GROOVE	ALL	ABBREVIATIONS ARE USED IN THE CONTRACT AWINGS.
	COUNTER FLÀSHINĠ CHALKBOARD	ES	EACH SIDE, EQUAL SPACE, EMERGENCY SHOWER	HPS HIGH-F HPT HORIZO	PRESSURE SODIUM ONTAL POINT OF TANGENCY	MPT MRGWB	MALE PIPE THREAD MOISTURE-RESISTANT			T TA	TILE, TREAD TOILET ACCESSORY, TEMPERED		BREVIATIONS SHOWN ON THIS SHEET INCLUDE
CHER CHER CHD	CHORD CHAMFER COMMUNICATION HANDHOLE	ESEW EST EW	EMERGENCY SHOWER AND EYE WASH ESTIMATE EACH WAY, EMERGENCY	HS HEADEI	REEL, HOUR D STUD, HIGH STRENGTH W STRUCTURAL SHAPE	MS MSL	GYPSUM WALLBOARD MOP SINK MEAN SEA LEVEL			TAN TBM TCE	TANGENT TEMPORARY BENCHMARK TEMPORARY CONSTRUCTION	MA	RIATIONS OF A WORD. FOR EXAMPLE, "MOD" Y MEAN MODIFY OR MODIFICATION; "INC" MAY AN INCLUDED OR INCLUDING AND "REINF" MAY
CIP CIP	CURB INLET CAST—IN—PLACE	EWC	EYE/FACE WASH ELECTRIC WATER COOLER	HT HEIGHT HTG HEATIN	Γ NG	MT MU	MOUNT MASONRY UNIT			TEF	EASEMENT TROWELED EPOXY FLOORING	ME.	AN EITHER REINFORCE OR REINFORCING.
\$ ८,,,	CONCRETE INTERLOCKING PAVER BALLAST	EWEF EWTB	EACH WAY, EACH FACE EACH WAY, TOP AND BOTTOM	HVAC HEATIN	VOLTAGE NG, VENTILATING AND	MULL MV	MULLION MEDIUM VOLTAGE			TEMP THD	TEMPORARY, TEMPERATURE THREAD	PRO	E INSTRUMENTATION LEGEND SHEET FOR DJECT—SPECIFIC EQUIPMENT SYMBOLS, JIPMENT ABBREVIATIONS, AND PIPING SYSTEM
Ė CIRC	CIRCULATION, CIRCULAR CONSTRUCTION JOINT CIRCUIT	EXC EXH EXP	EXCAVATION EXHAUST EXPANSION, EXPOSED	HWD HARDW	CONDITIONING WOOD WATER LEVEL	MW	MONITORING WELL			THK THRESH TKBD	THICK THRESHOLD TACK BOARD		DIPMENT ABBREVIATIONS, AND PIPING SYSTEM BREVIATIONS.
MA Lii	CENTERLINE, CLASS, CLOSE	EXST	EXISTING	HYD HYDRA	JULIC	<u></u>		<u> </u>		<u> </u>			
Disc					PROJECT MANAGER A. MEILLEUR				Til				GENERAL
UNDERGR	ROUND SERVICE ALERT				DESIGNED B. DUDZIK		ELECTRONIC SEAL AND		City of Wenat	-		ABE	BREVIATIONS
NIC WE	ONE-CALL NUMBER 1-800-424-5555				DRAWN B. LILLY		SIGNATURE HAS BEEN REMOVED. THIS MEDIA		Venat	rhe	r		

1-800-424-5555

CALL TWO BUSINESS DAYS
BEFORE YOU DIG

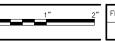


			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	B. DUDZIK
			DRAWN	B. LILLY
1	APR 2014	RECORD DRAWINGS	CHECKED	J. KOCH
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097
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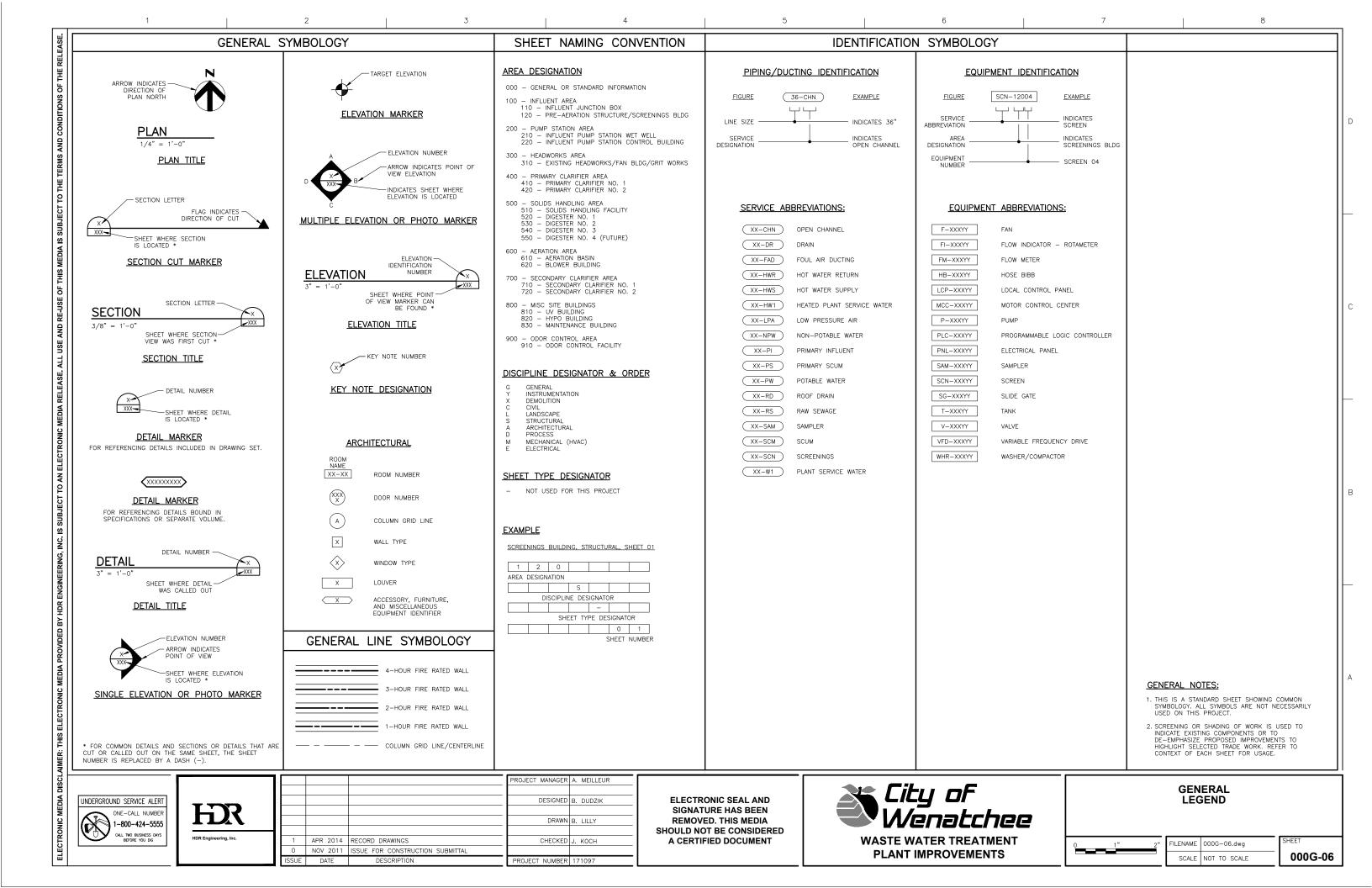
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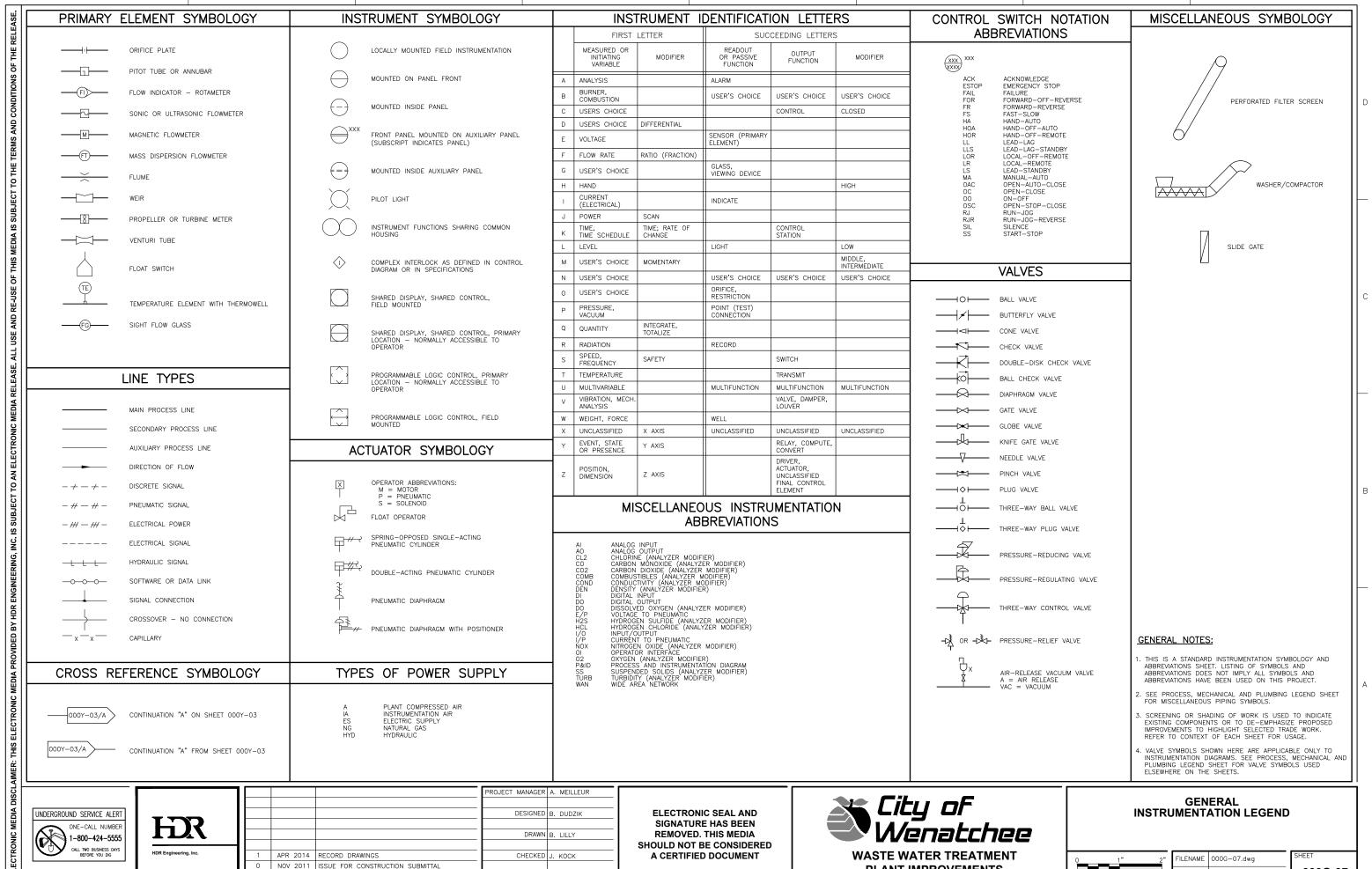


PLANT IMPROVEMENTS



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DATE

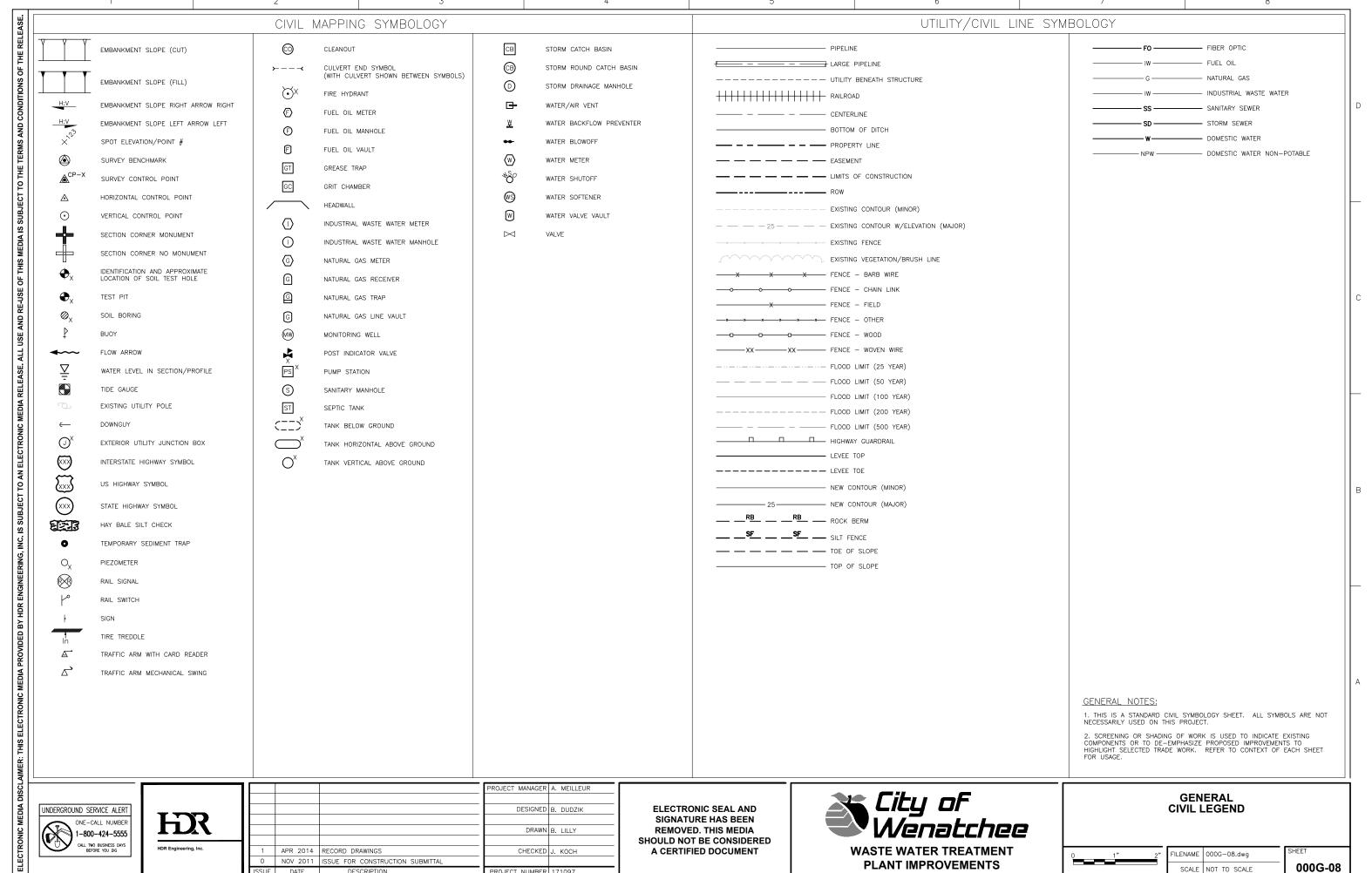
DESCRIPTION

PROJECT NUMBER 171097

PLANT IMPROVEMENTS

000G-07

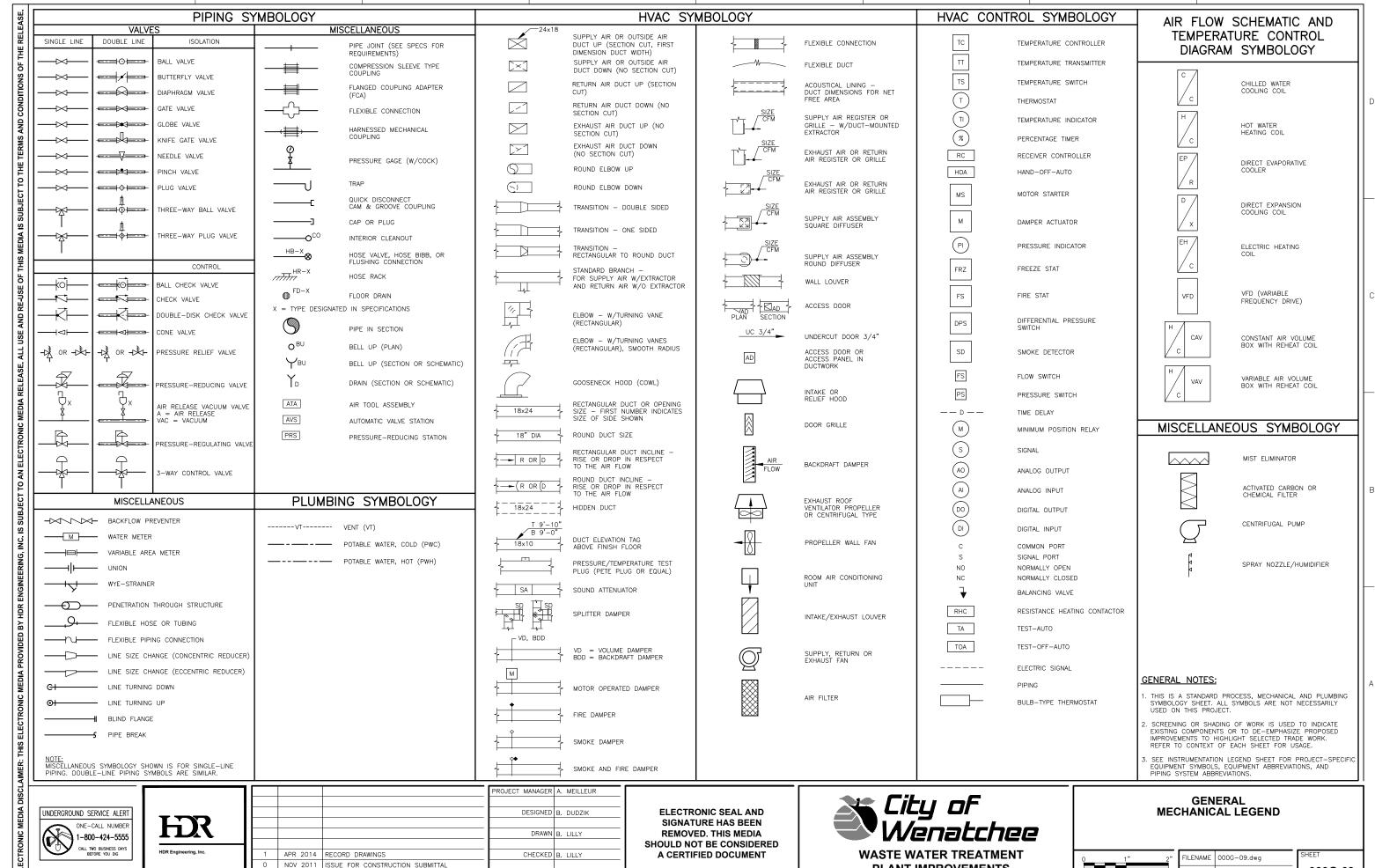
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ISSUE DATE

DESCRIPTION

PROJECT NUMBER 171097



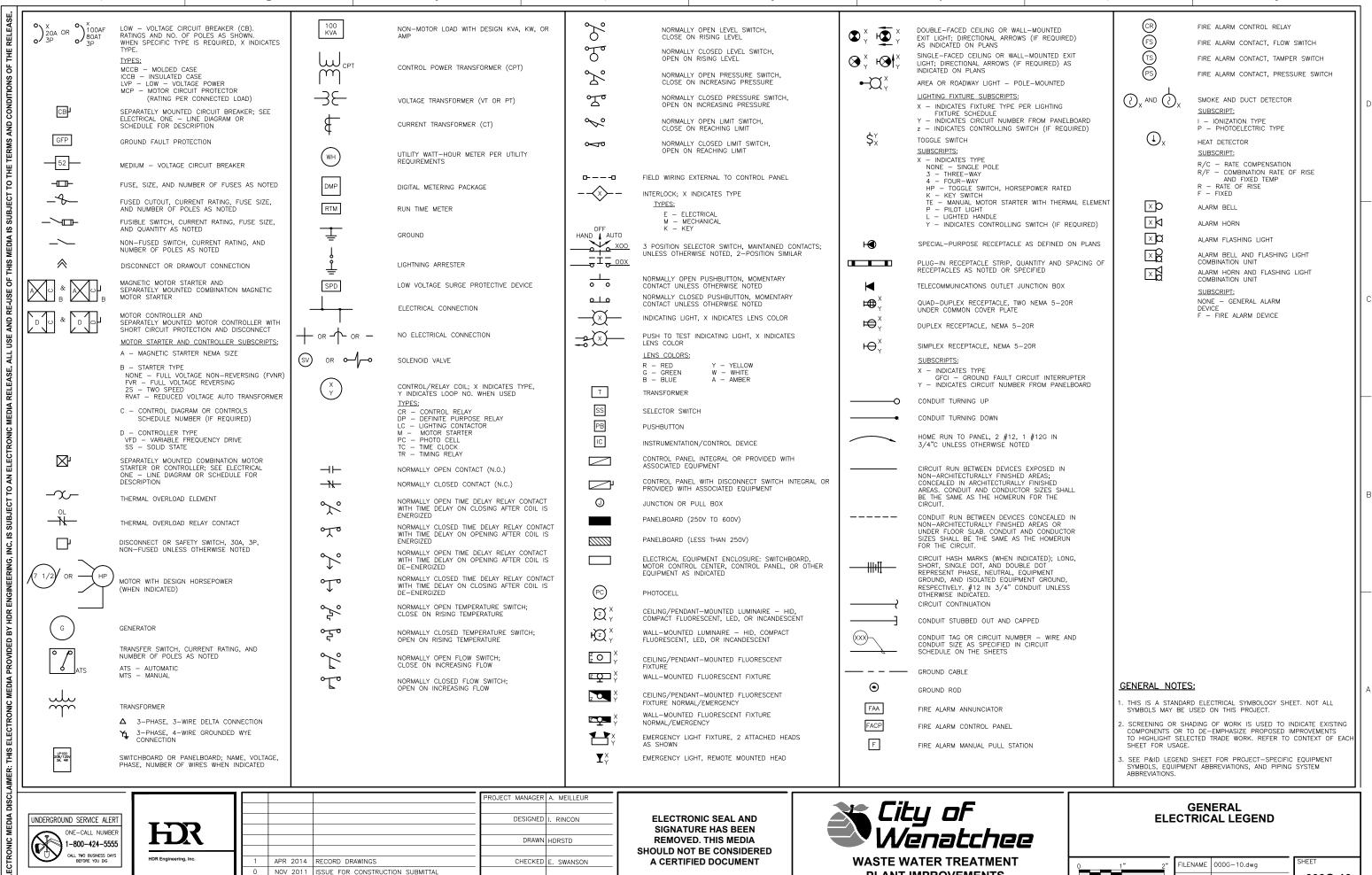
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DESCRIPTION

PROJECT NUMBER 171097

000G-09 SCALE NOT TO SCALE

PLANT IMPROVEMENTS



DATE

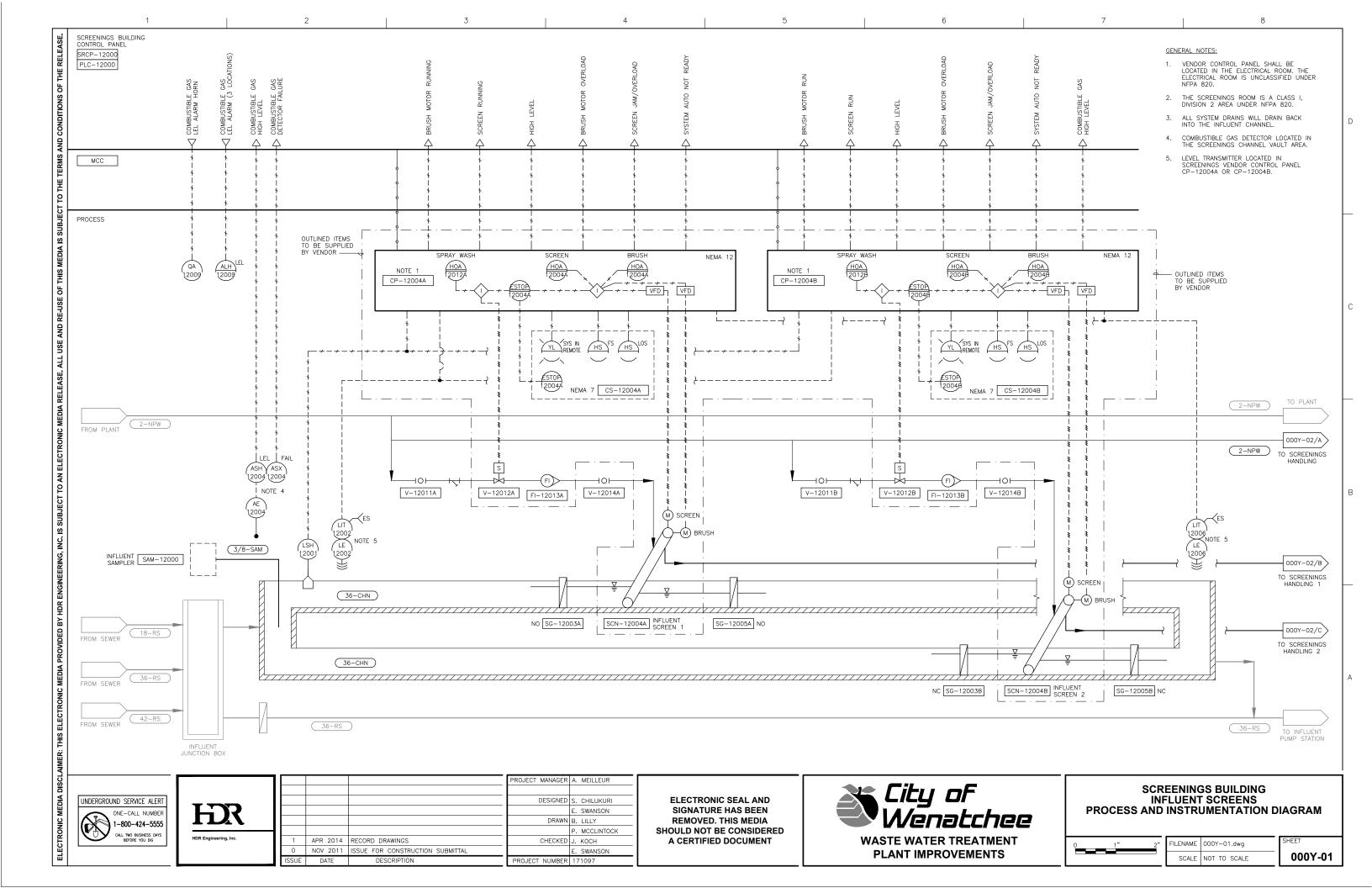
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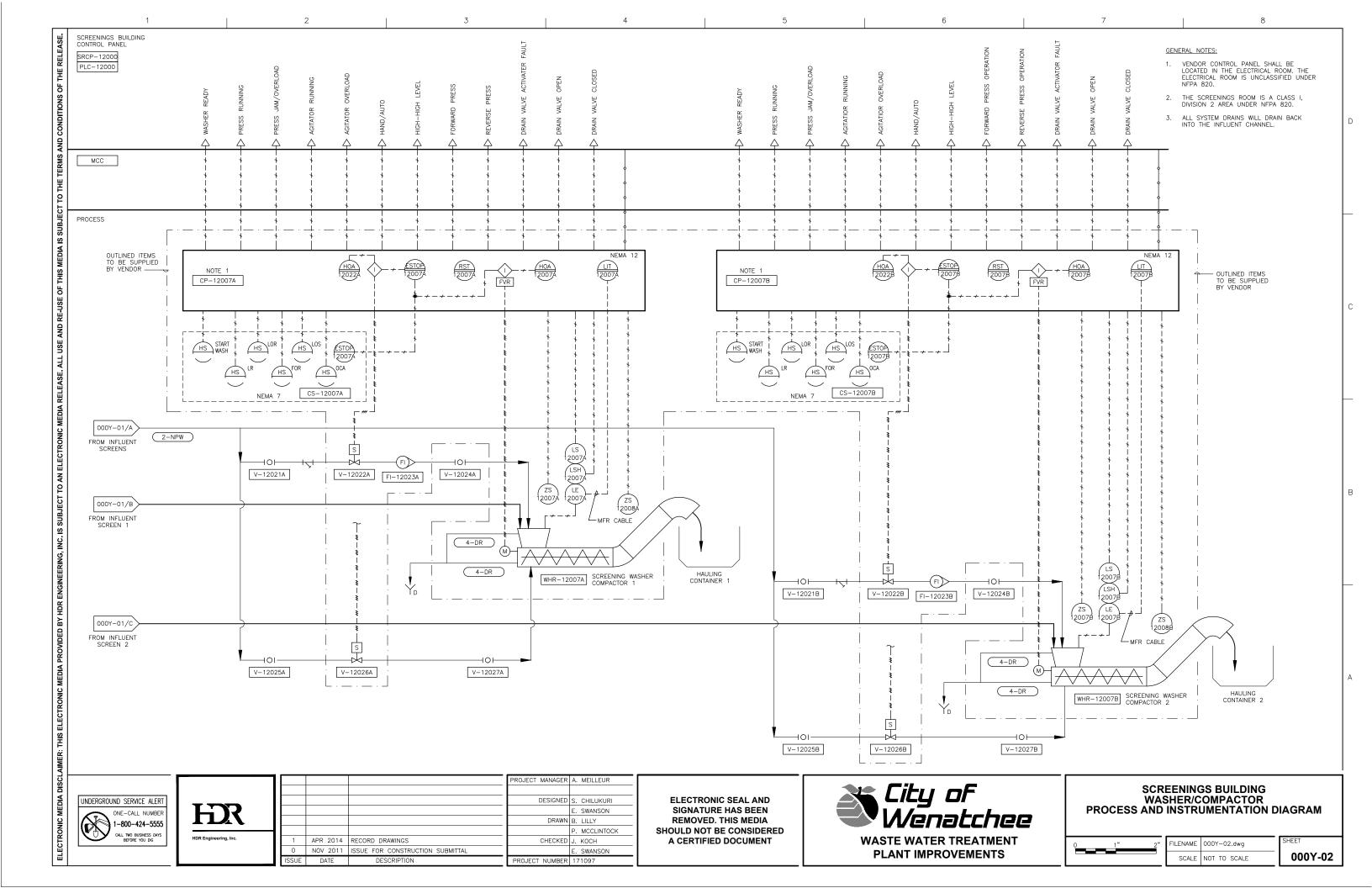
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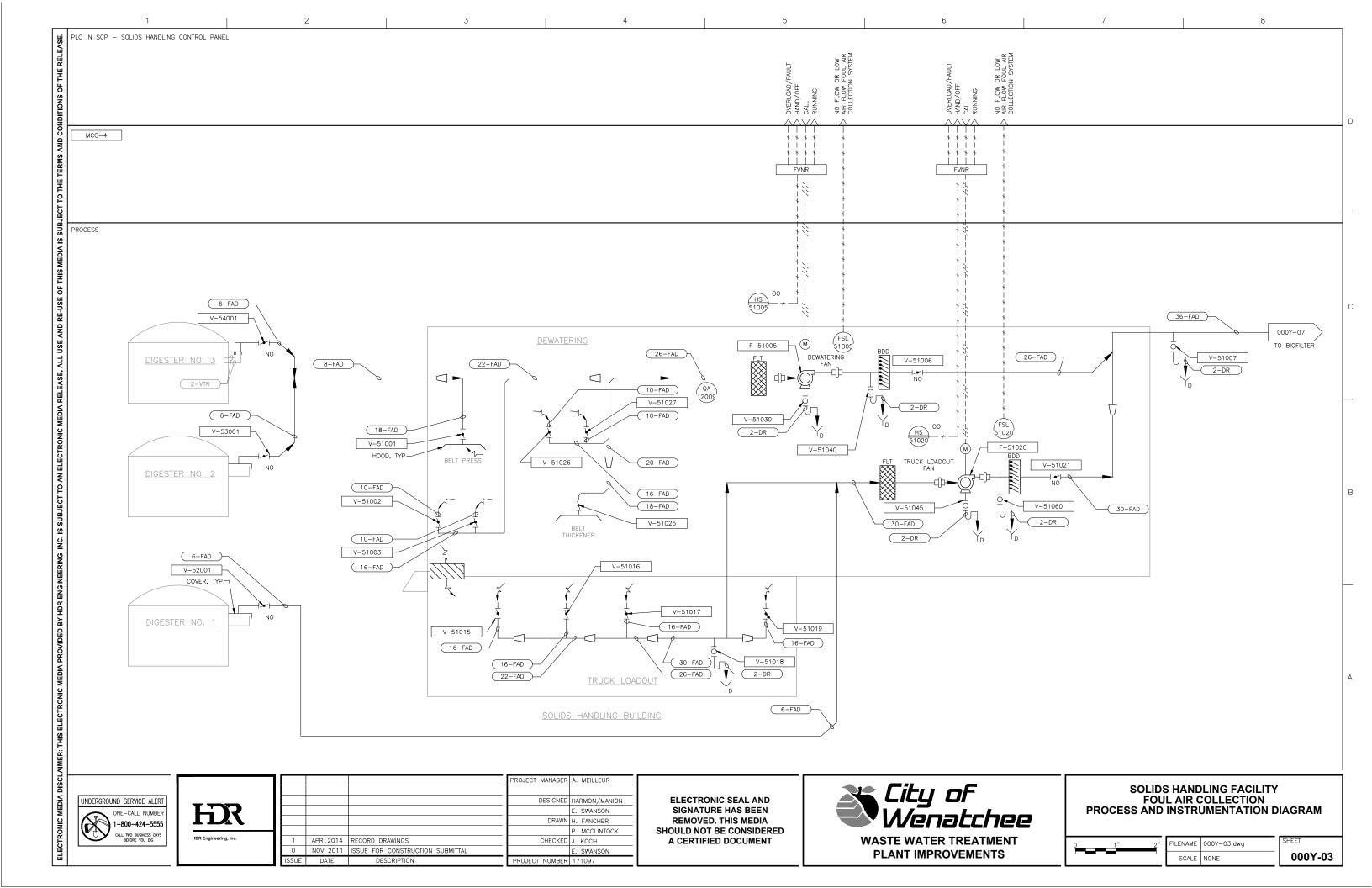
PLANT IMPROVEMENTS

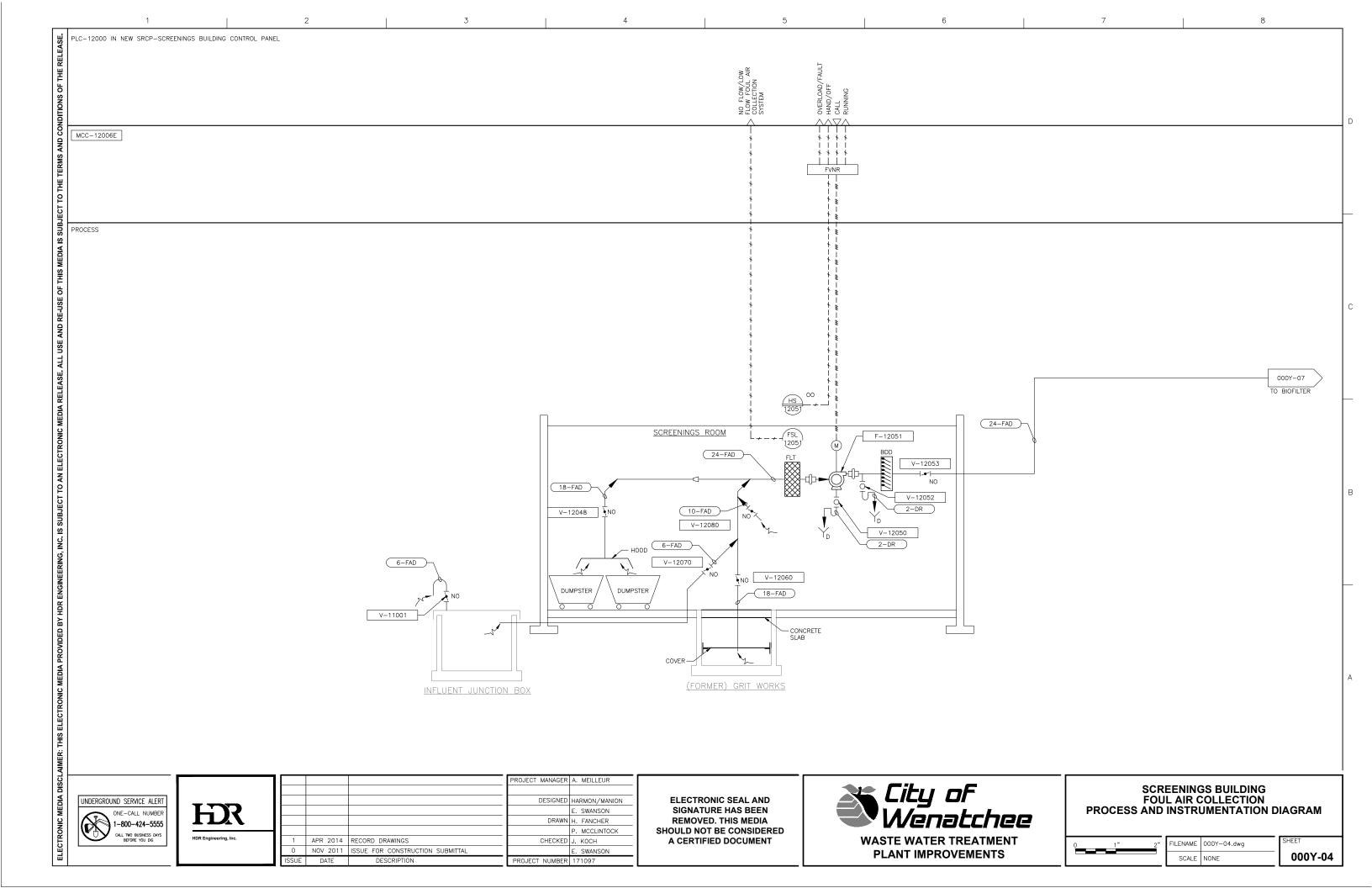
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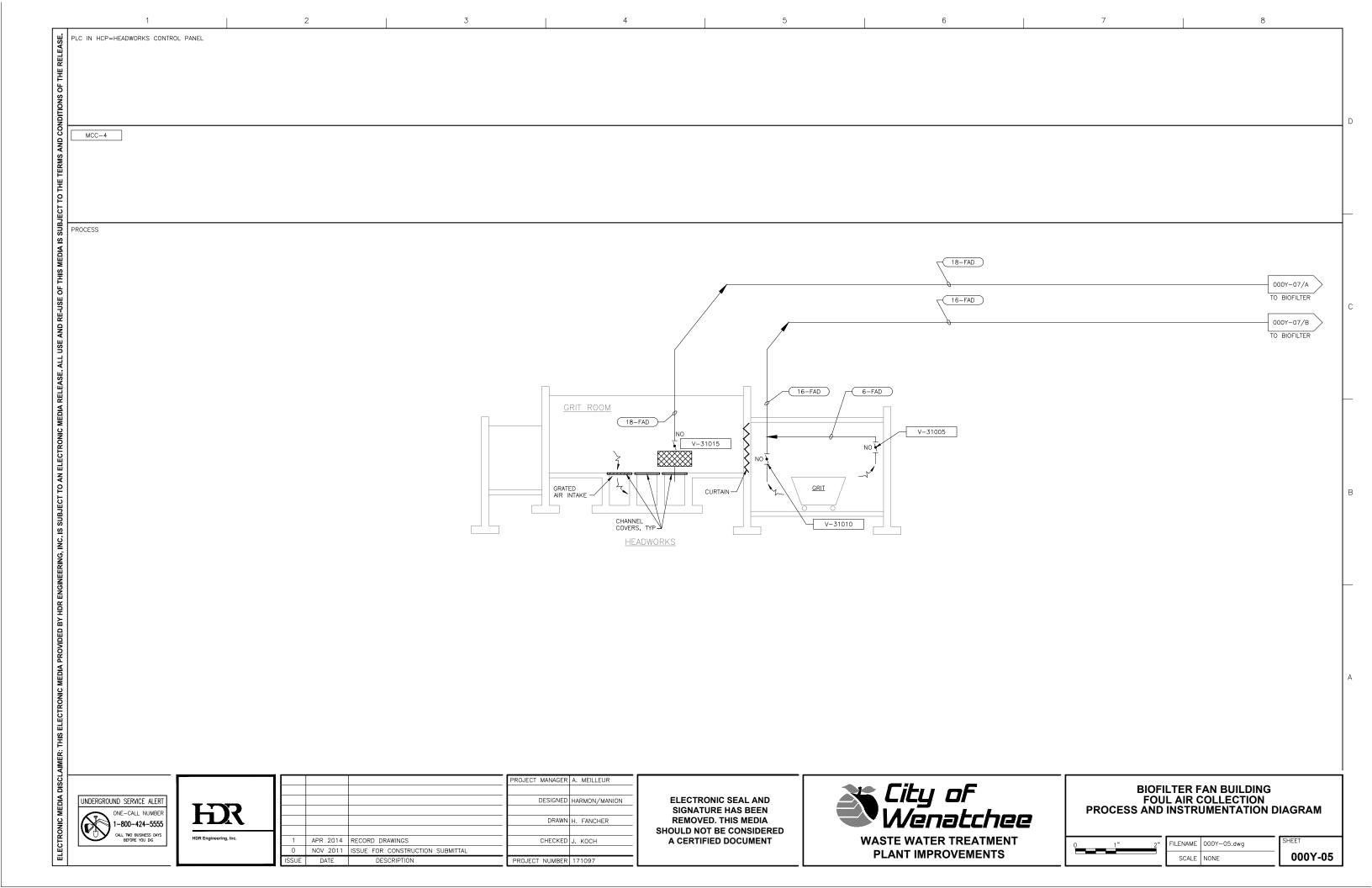
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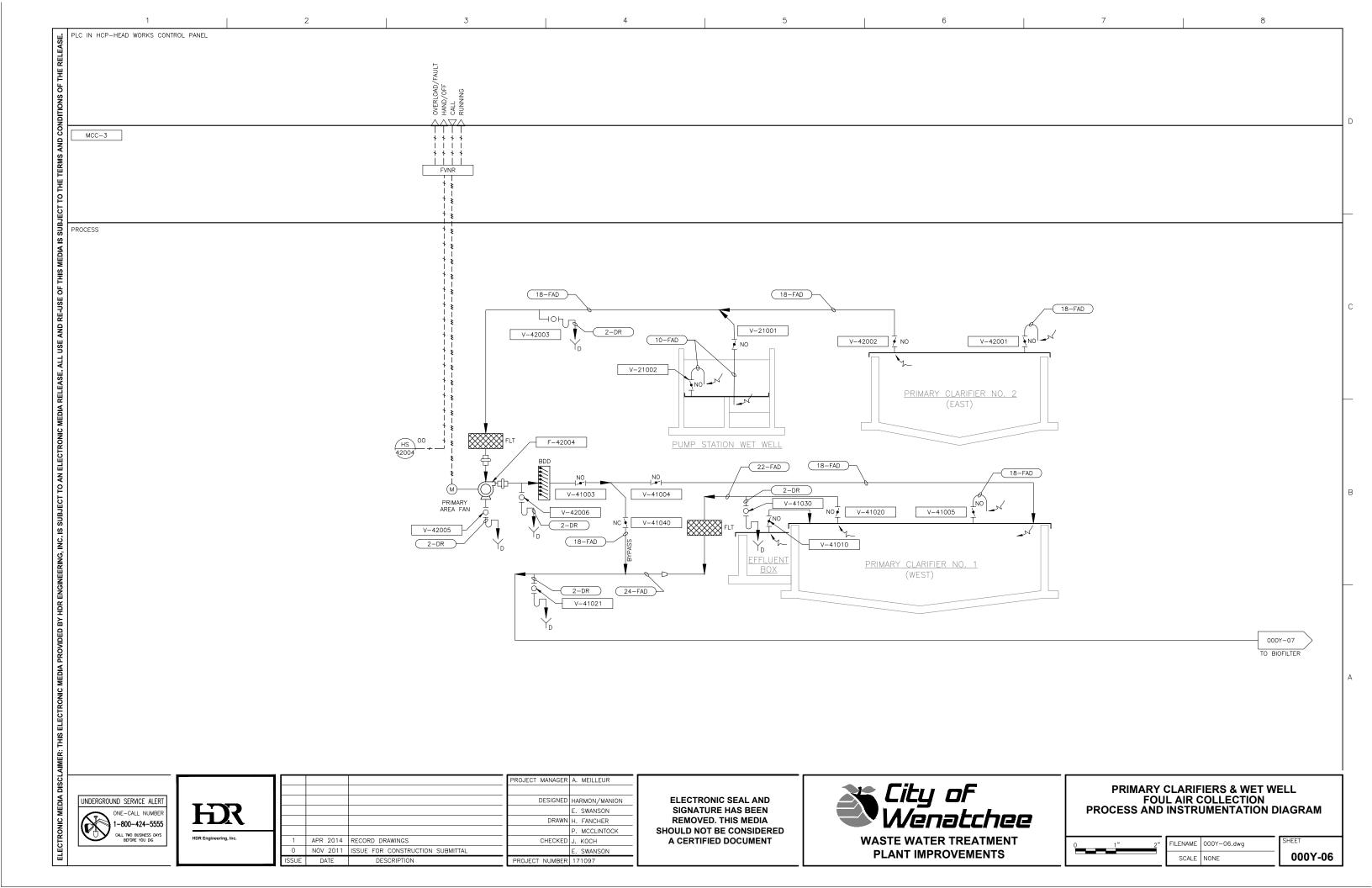


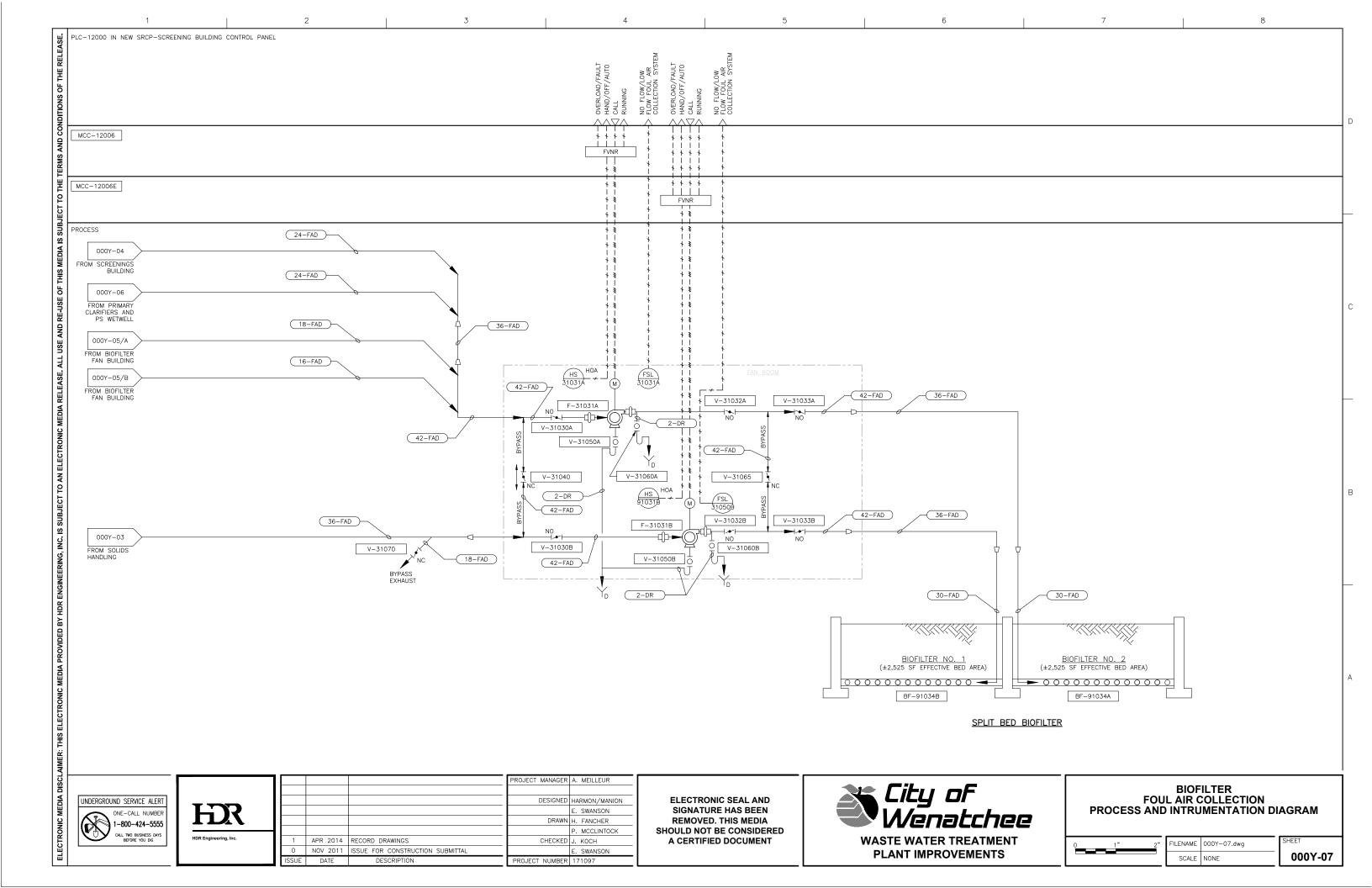


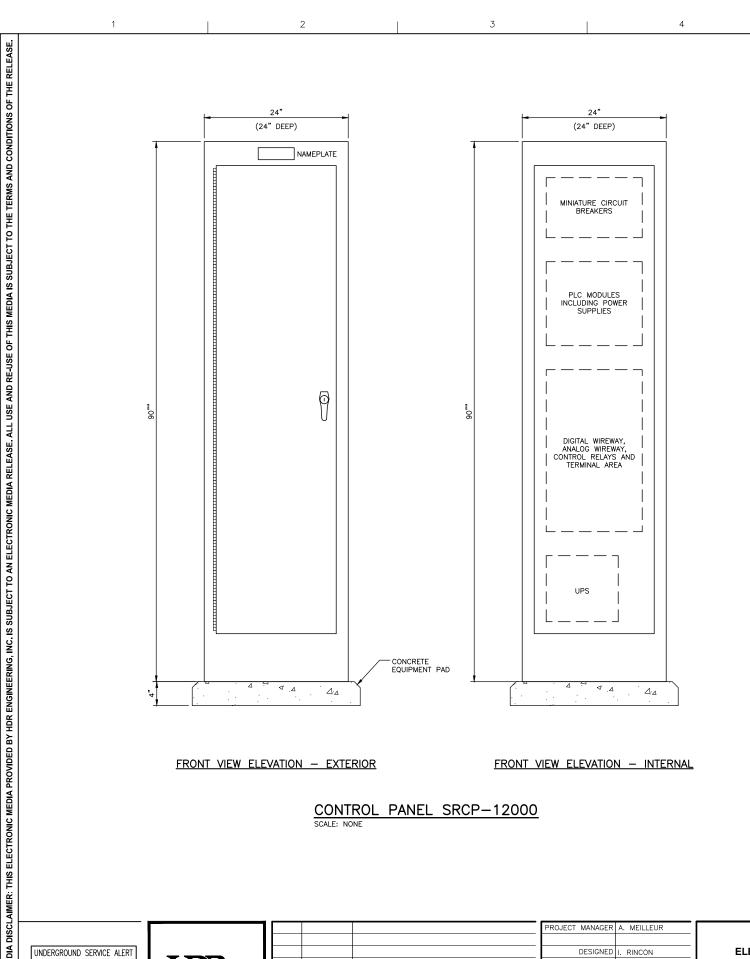






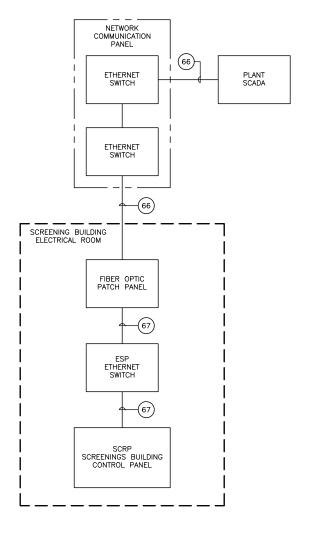






NOTES:

- SECURE CONTROL PANEL TO CONCRETE WITH CONCRETE ANCHORS. SEE DESIGN SHEET 000E-10, DETAIL 8.
- PANEL ENCLOSURE SHALL BE 24" DEEP. PANEL WIDTH SHALL BE AS REQUIRED TO ACCOMMODATE ALL PANEL COMPONENTS AND WIRE TERMINATIONS. ALL DIMENSIONS ARE NOMINAL.
- REFER TO BLOCK DIAGRAMS AND SPECIFICATIONS FOR MAJOR PANEL COMPONENTS.
 - . REFER TO P&IDs AND I/O SUMMARY LIST FOR SPECIFIC I/O POINTS AND CIRCUITS REQUIRED FOR THIS PANEL.
 - REFER TO PLC I/O WIRING, TYPICAL DIAGRAM FOR PLC I/O WIRING ARRANGEMENTS.
- 6. PROVIDE A MINI-CIRCUIT BREAKER FOR EACH DISCRETE I/O MODULE.



NETWORK INTERFACE BLOCK DIAGRAM

UNDERGROUND SERVICE ALERT

ONE-CALL NUMBER

1-800-424-5555

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BEFORE YOU DIG



			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	I. RINCON
			DRAWN	P. McCLINTOCK
1	APR 2014	RECORD DRAWINGS	CHECKED	J. KOCH
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		E. SWANSON
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

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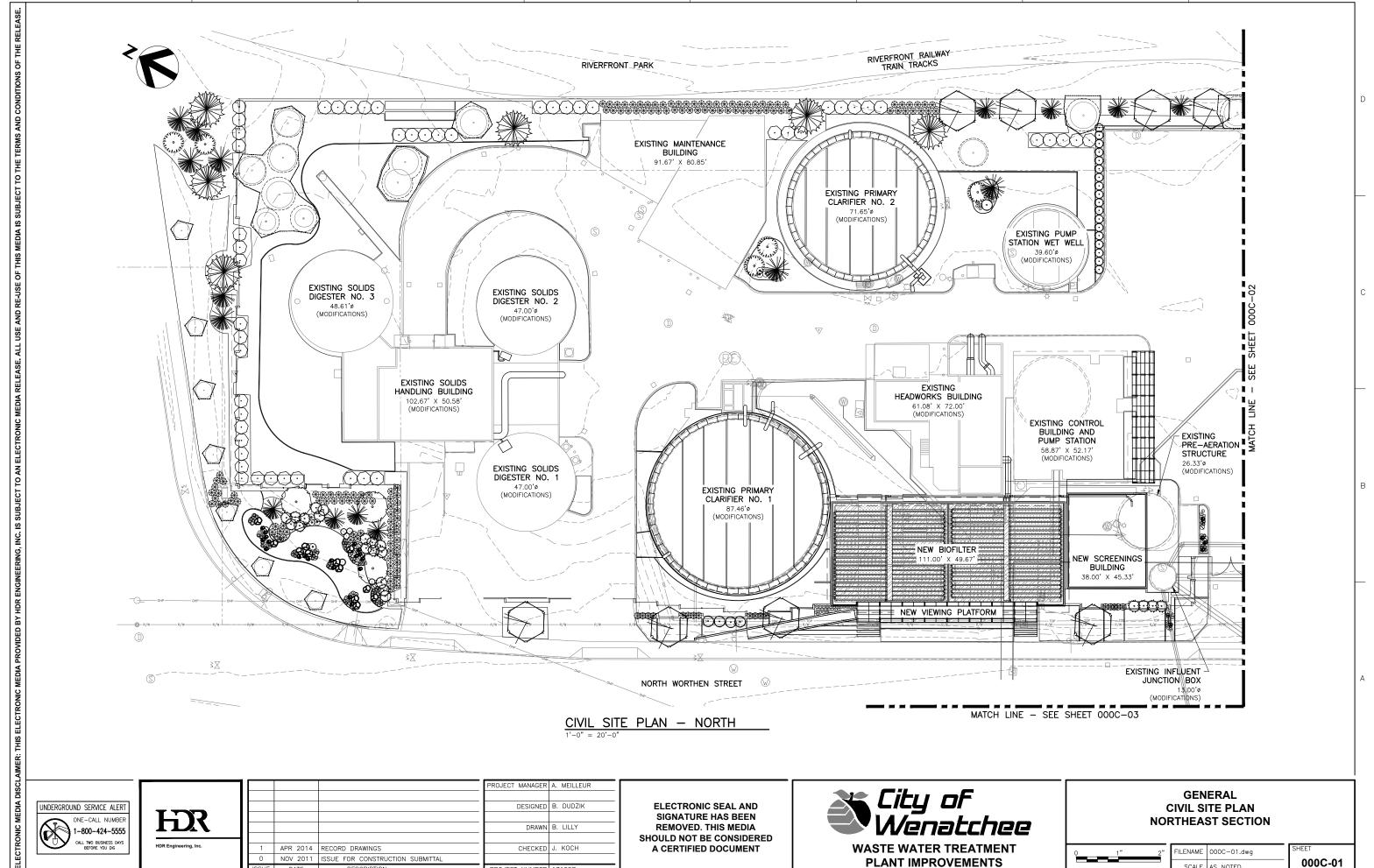


CONTROL PANEL ELEVATION



FILENAME	000Y-08.dwg	SH
SCALE	NOTED	

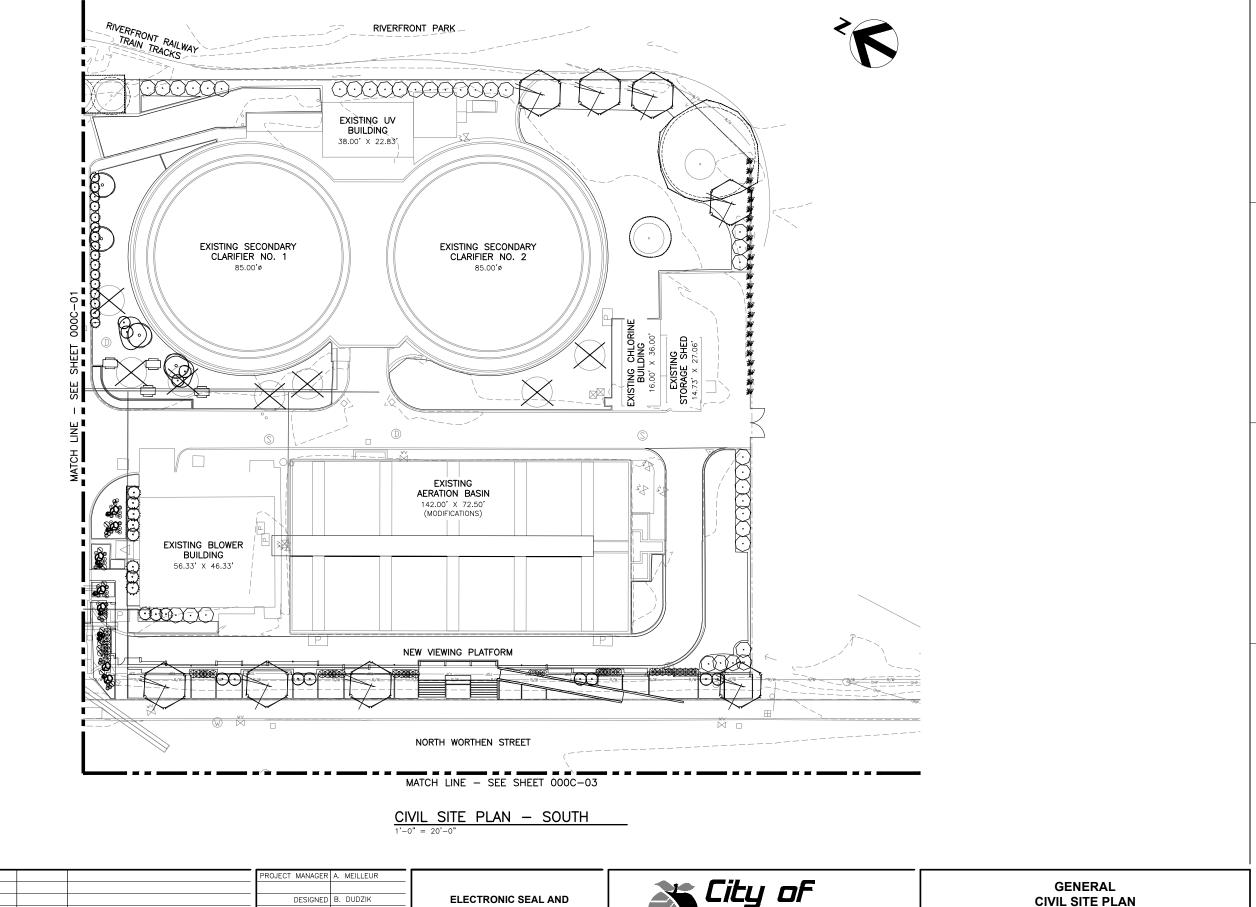
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Ξ	000C-01.dwg	SHEET
Ξ	AS NOTED	000C-01



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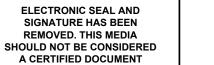
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ering, Inc.		1	APR
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			PROJECT MANAGER	A. MEILLE
			DESIGNED	B. DUDZII
			DRAWN	B. LILLY
1	APR 2014	RECORD DRAWINGS	CHECKED	J. KOCH
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

AWN B. LILLY KED J. KOCH





PLANT IMPROVEMENTS

CIVIL SITE PLAN SOUTHEAST SECTION

1" 2"	FILENAME	000C-02.d
	SCALE	AS NOTED

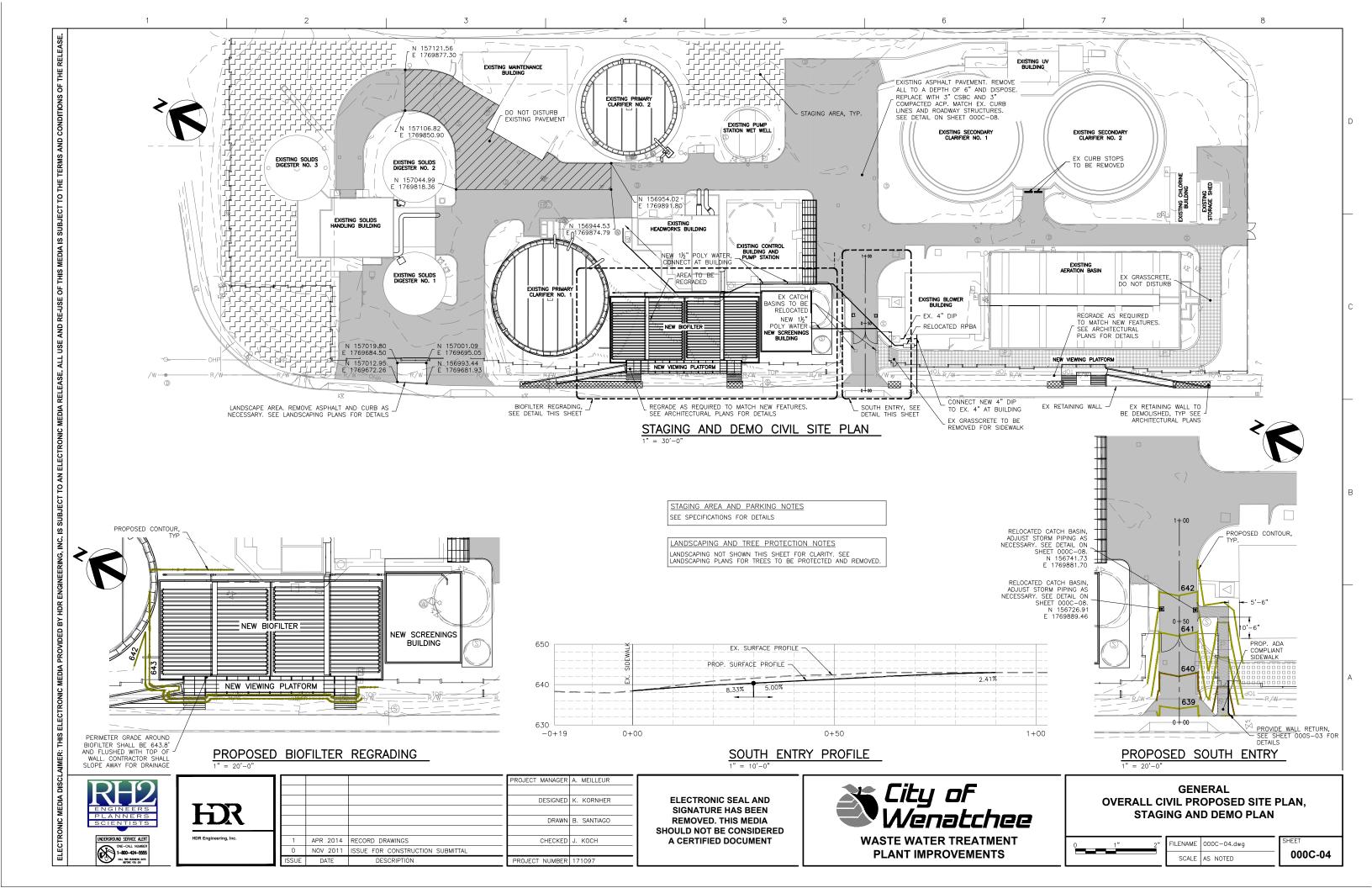
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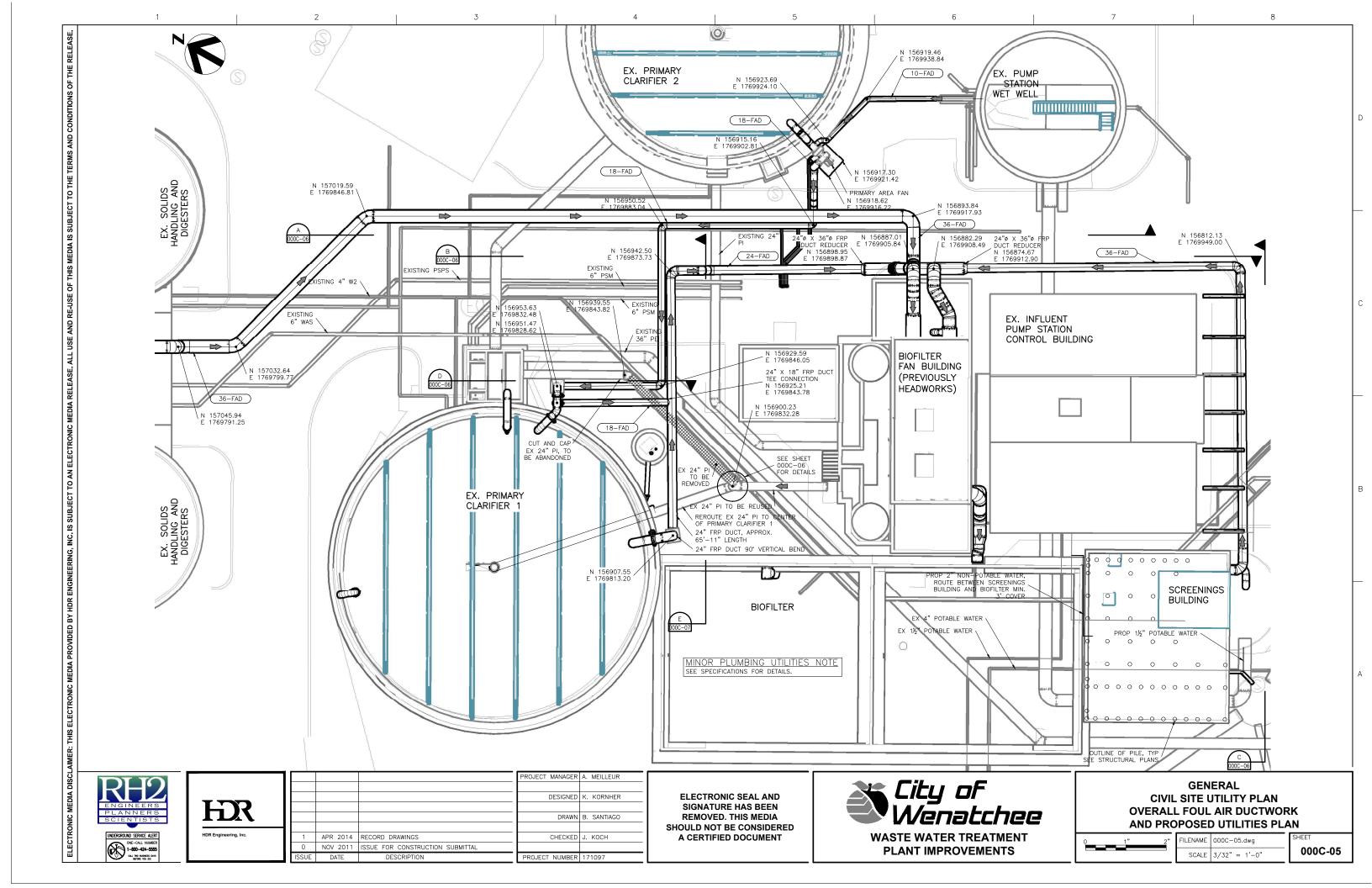
			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	B. DUDZIK
			DRAWN	B. LILLY
1	APR 2014	RECORD DRAWINGS	CHECKED	J. KOCH
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

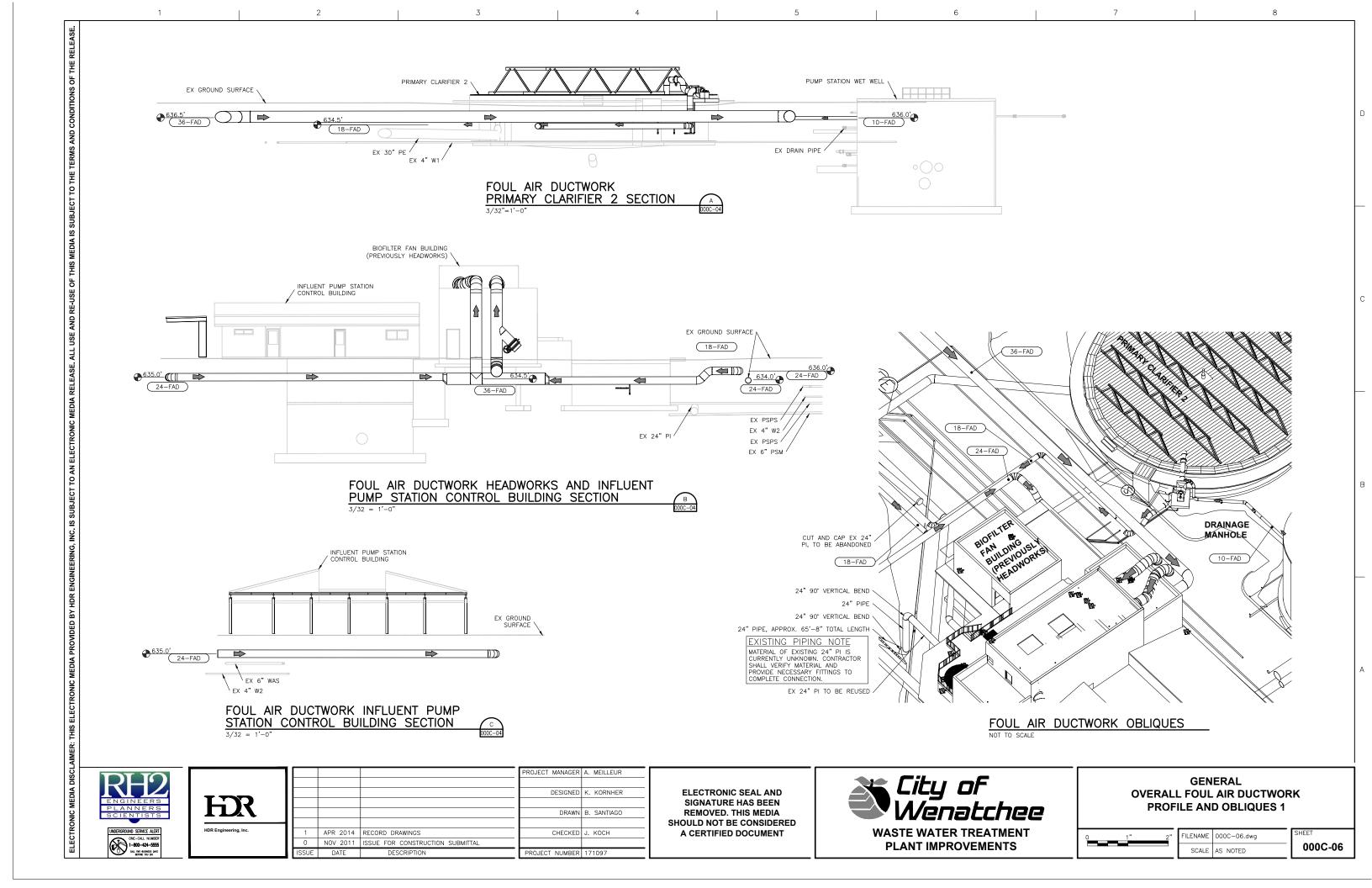


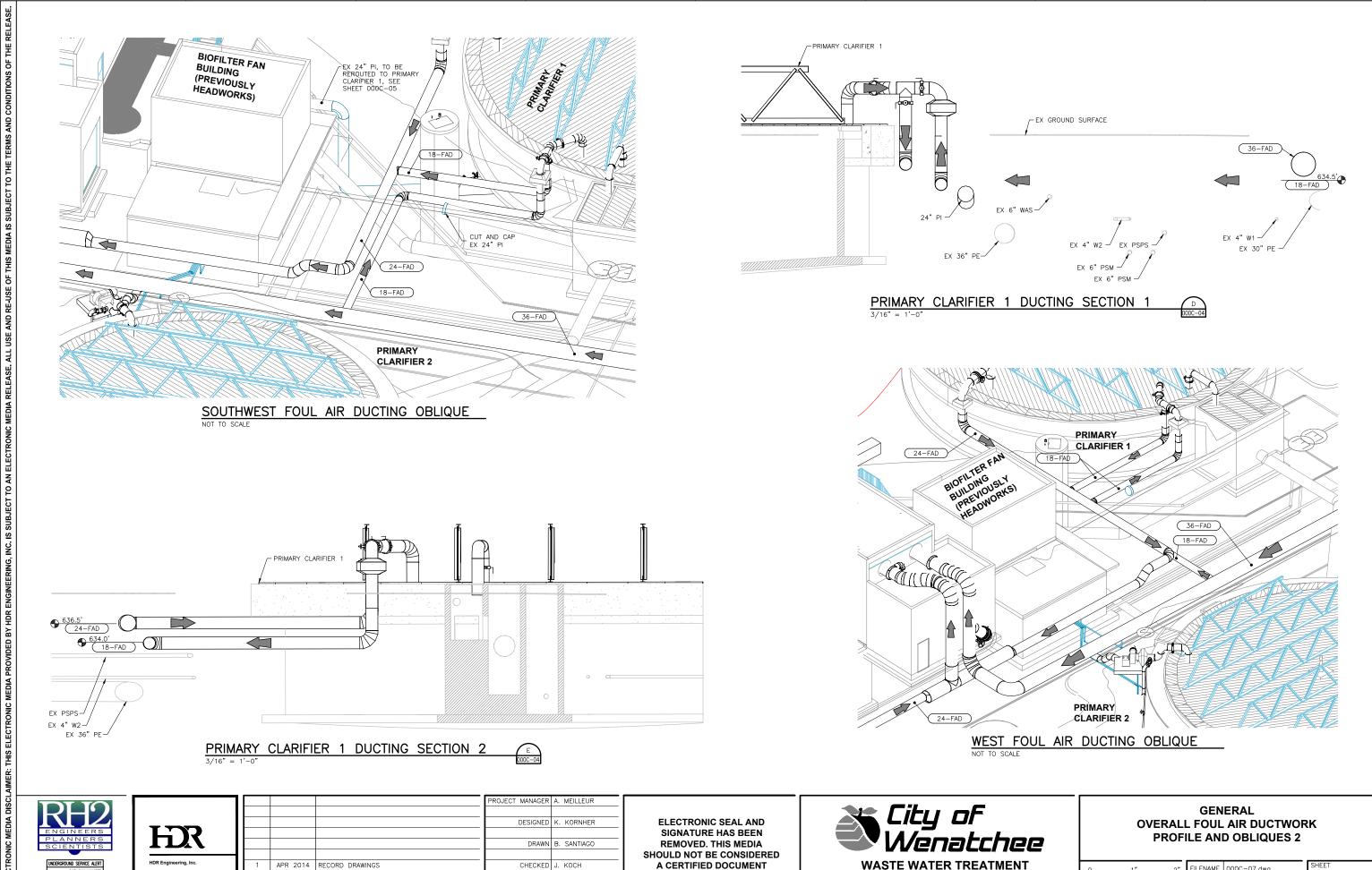
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SCALE	AS NOTED

000C-03









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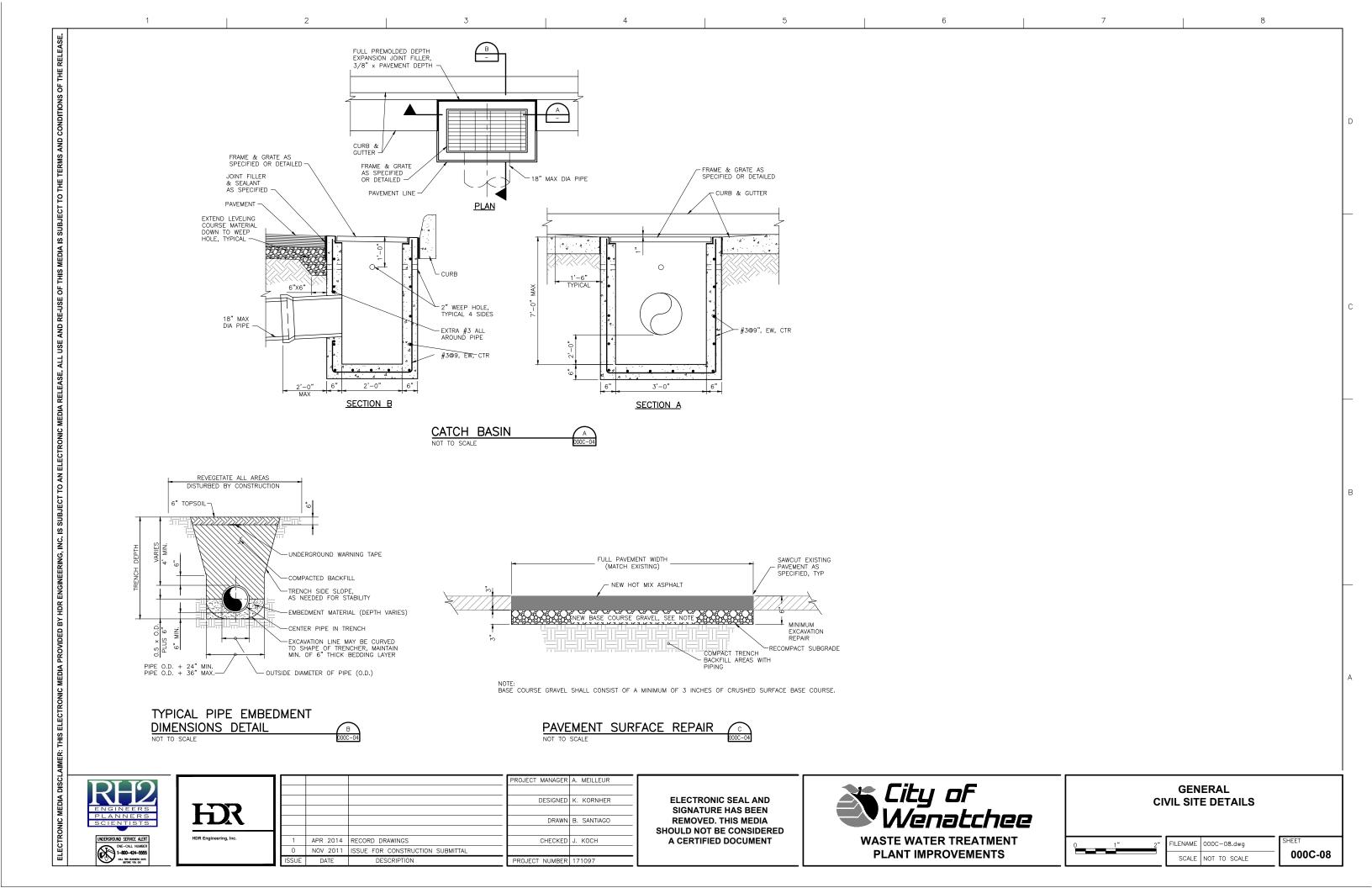
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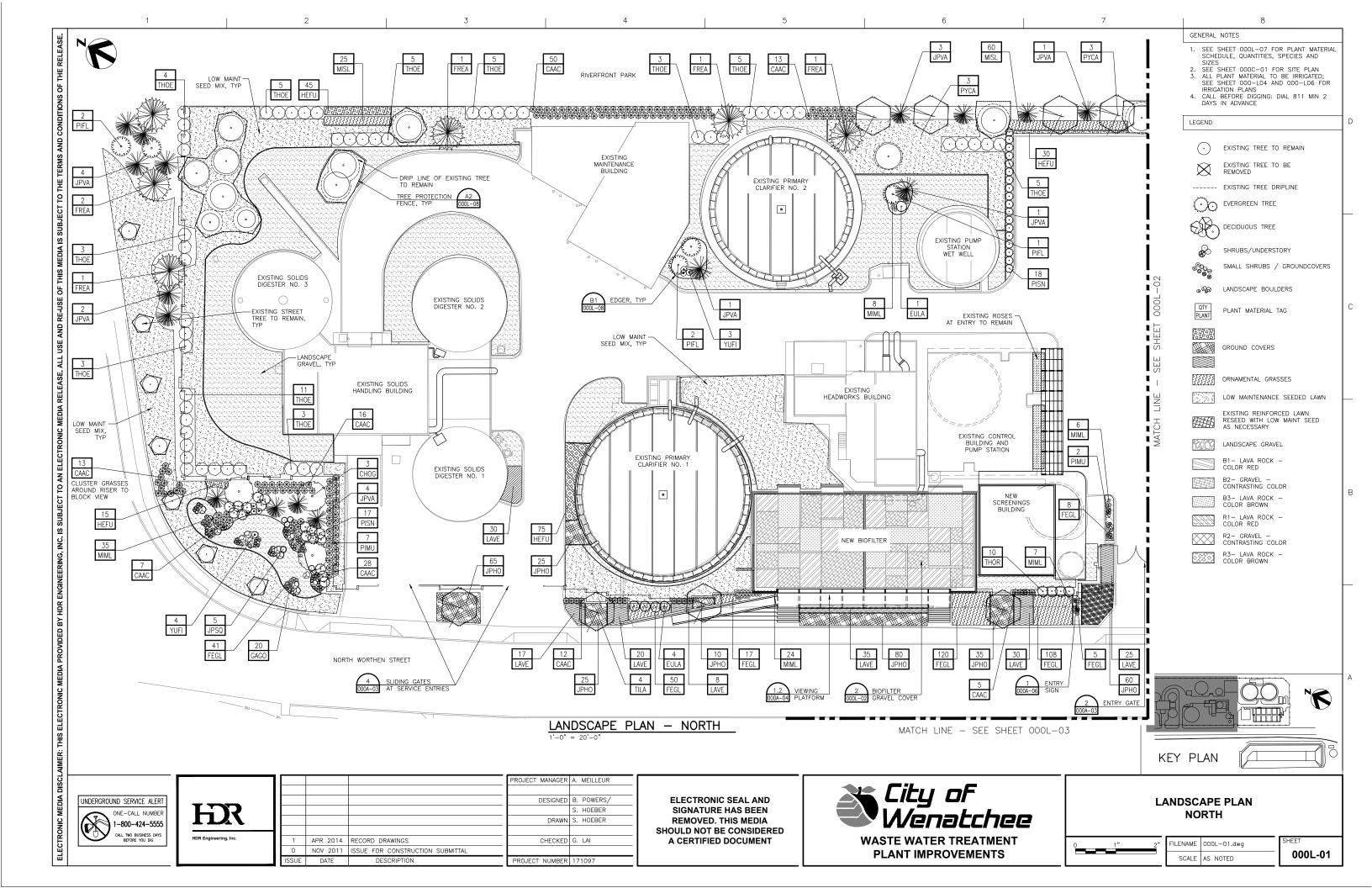
PROJECT NUMBER 171097

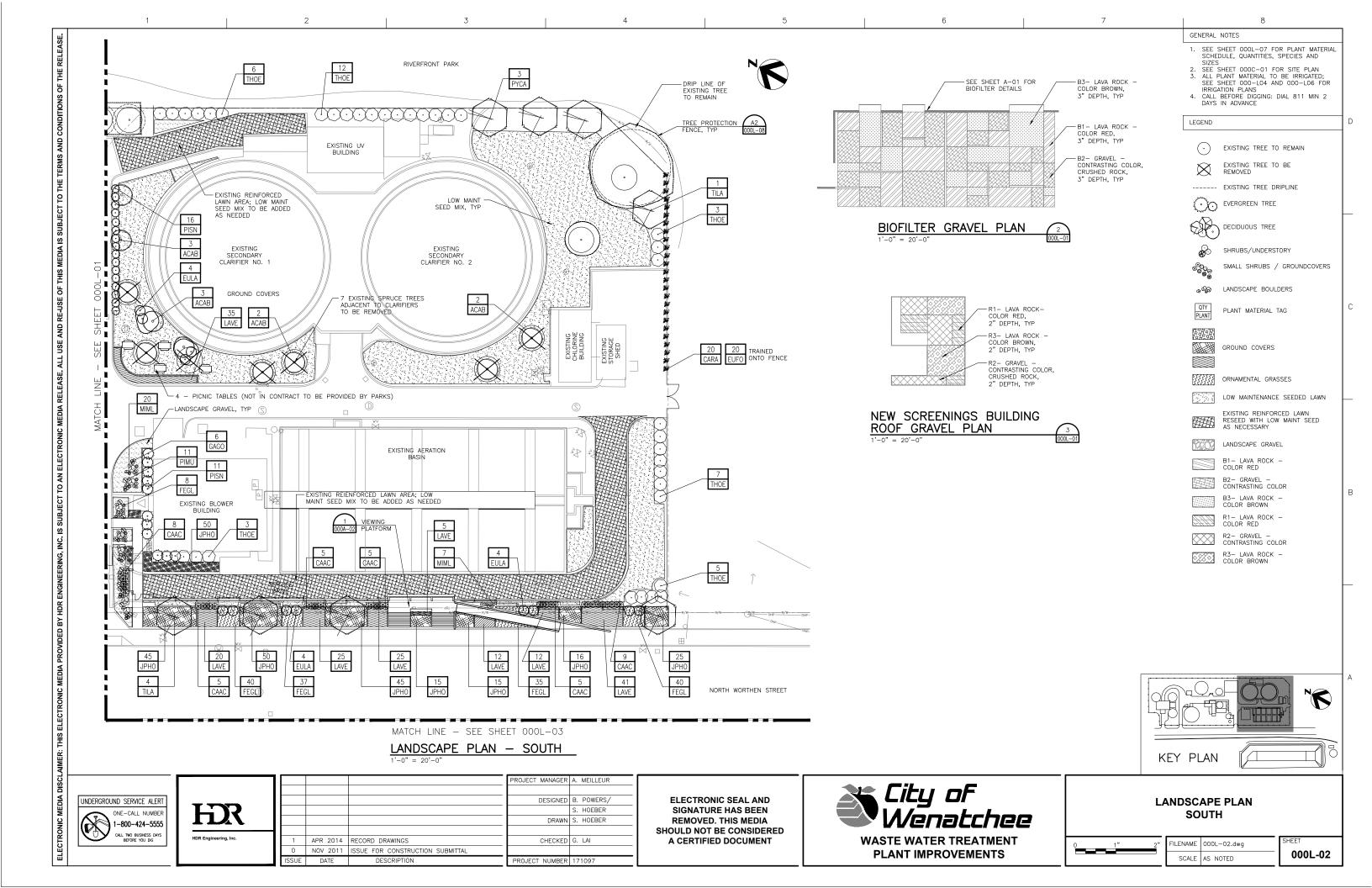
ISSUE DATE

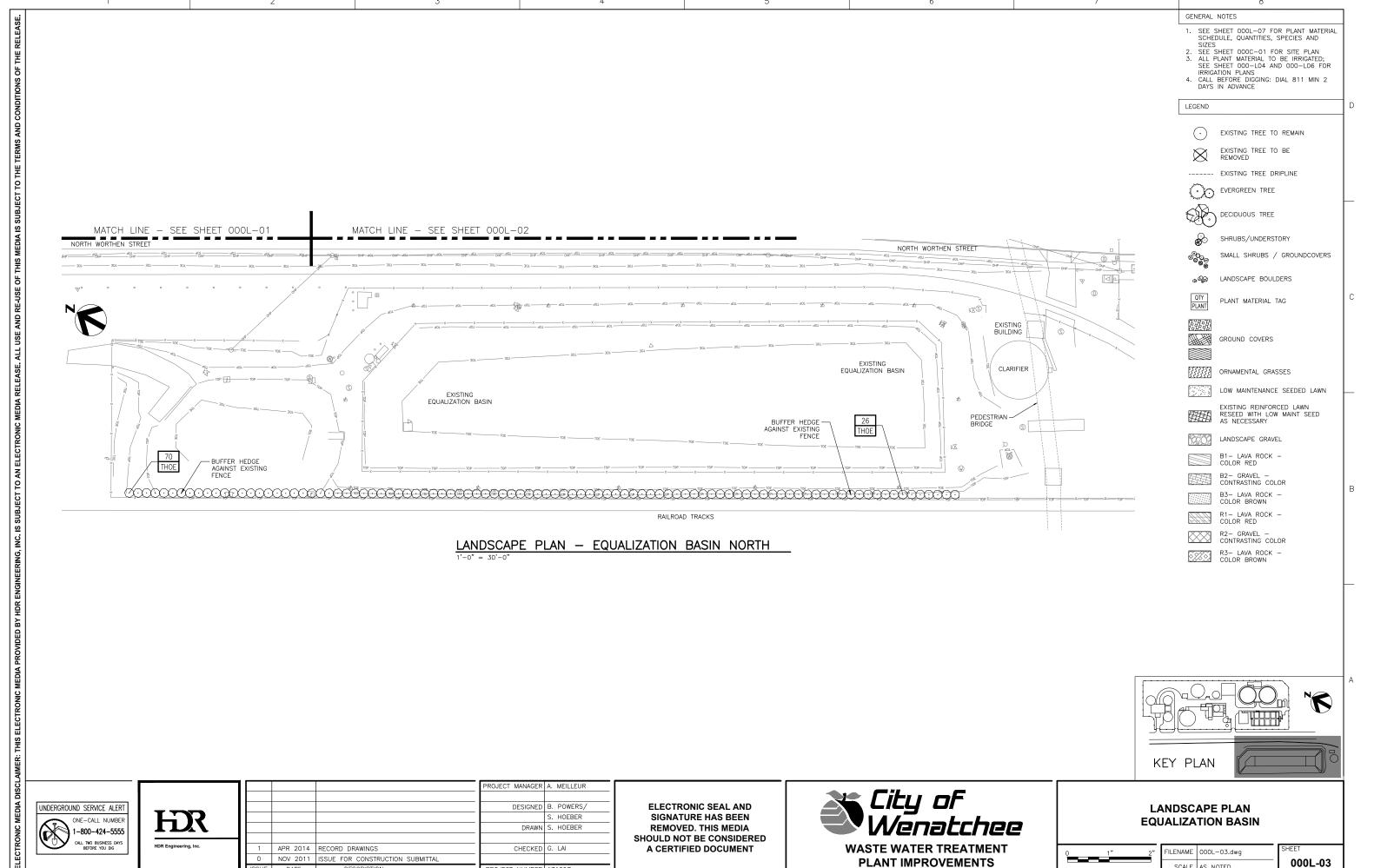
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SCALE AS NOTED







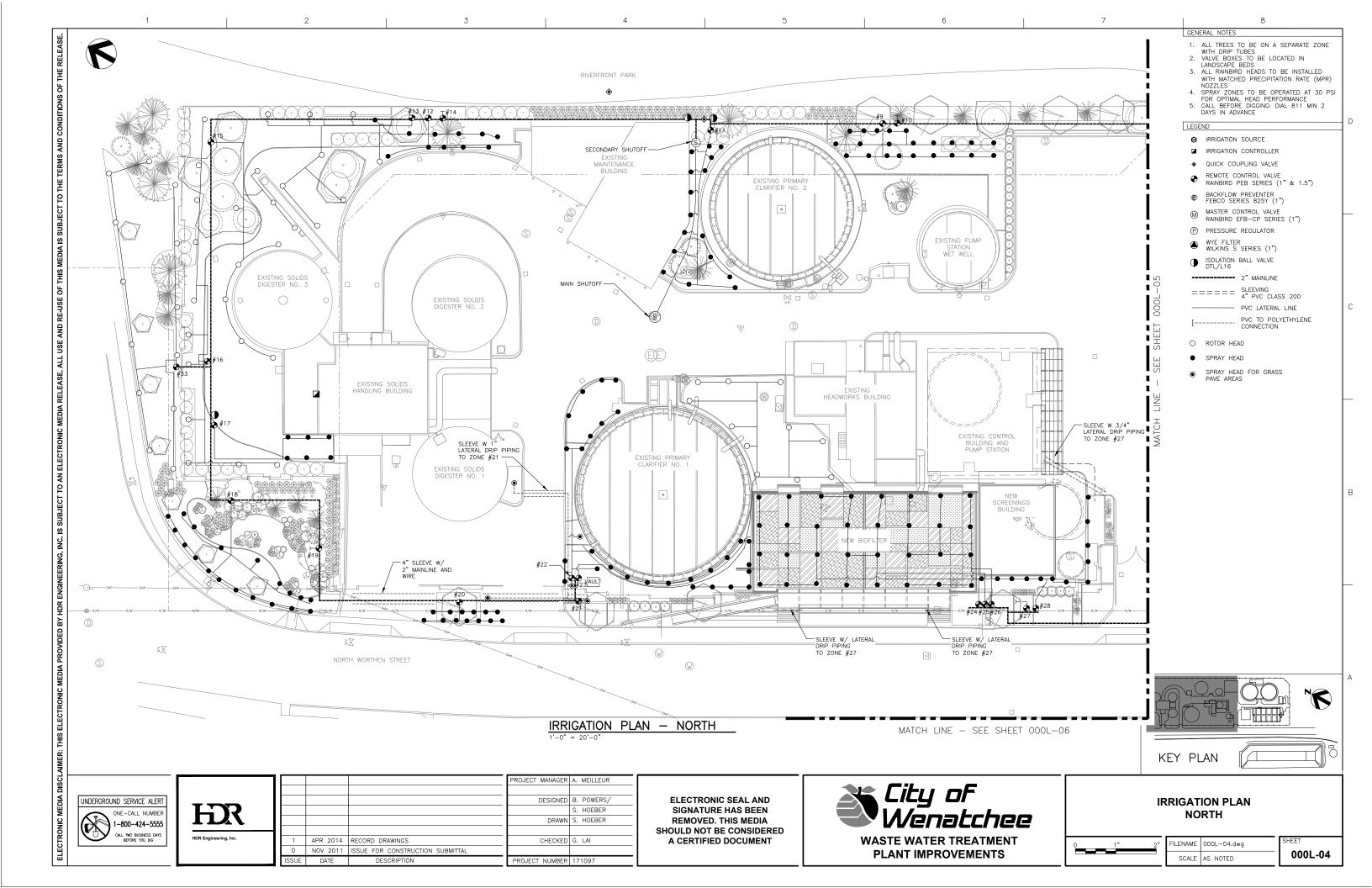


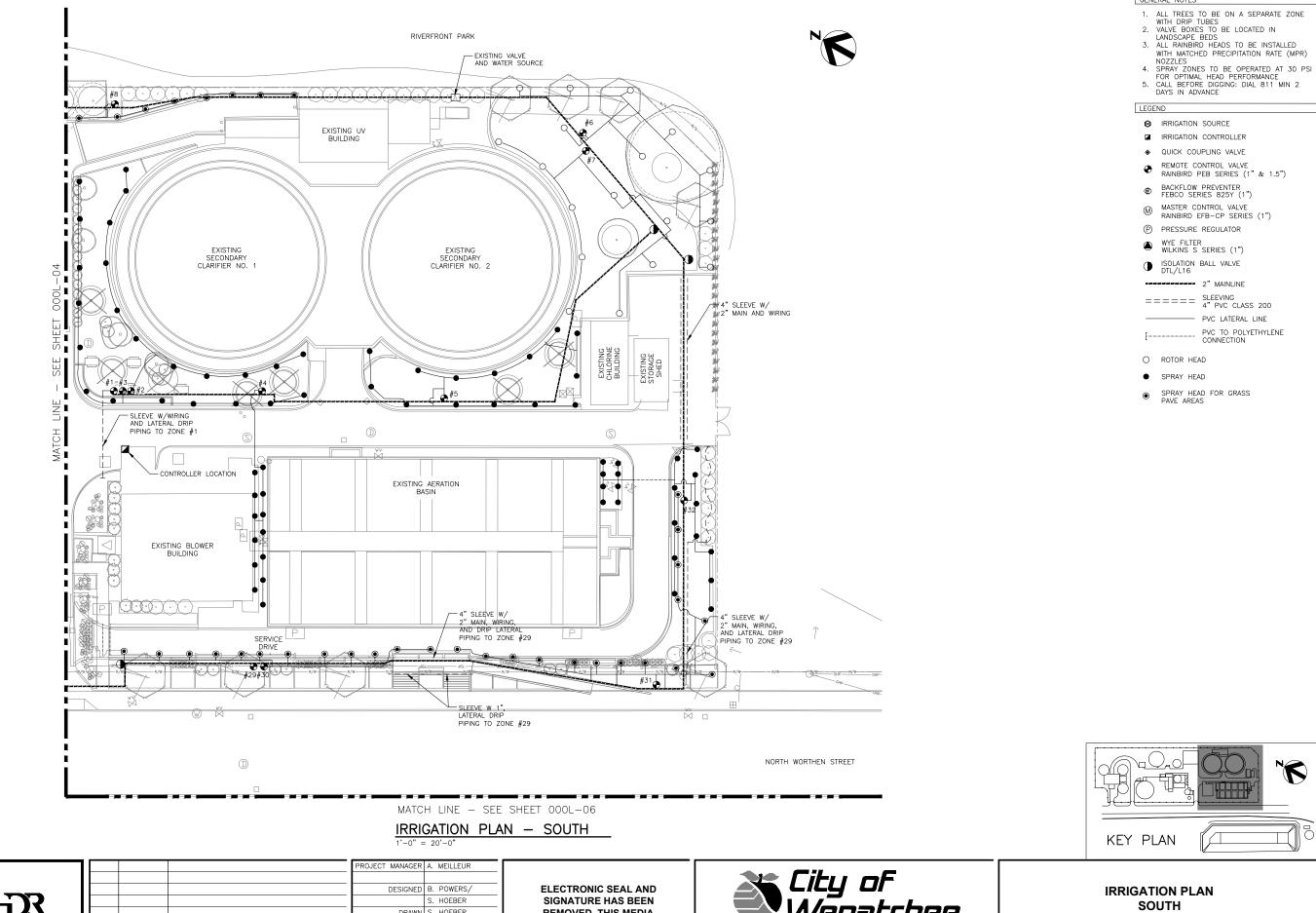
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PROJECT NUMBER 171097

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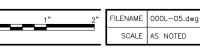
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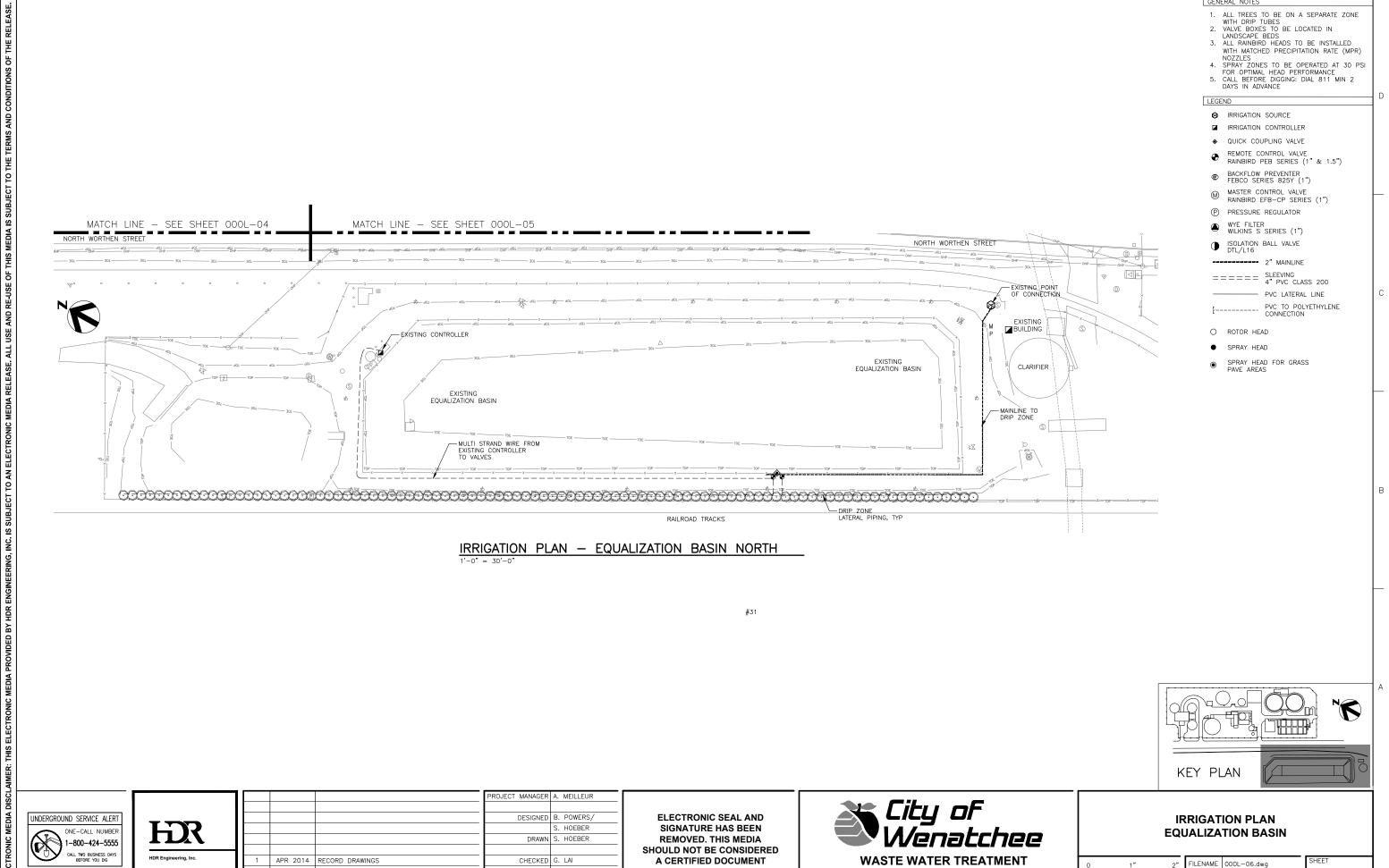
			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	B. POWERS/
				S. HOEBER
			DRAWN	S. HOEBER
1	APR 2014	RECORD DRAWINGS	CHECKED	G. LAI
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
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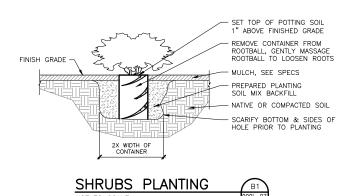
PROJECT NUMBER 171097

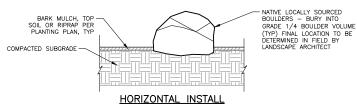
ISSUE DATE

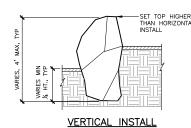
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DO NOT CUT LEADER; PRUNE-DAMAGED WOOD PRIOR TO PLANTING; REMOVE TWINE FROM BRANCHES COTTON/NYLON WEBBED STRAP, SEE SPECS; NEATLY AND UNIFORMLY TIGHTEN GUY WIRES; USE 16 GA WIRE PLACED THROUGH GROMMETS OF WEB STRAPS TO SECURE TREE SOLID GREEN 'T'
POSTS, SEE SPECS;
POSTS TO EXTEND
NO MORE THAN 6"
ABOVE GRADE - CROWN OF ROOTBALL SET 1" ABOVE FINISH GRADE - ROOTBALL - DO NOT PENETRATE WITH STAKING; TREES WITH LARGE CIRCLING ROOTS OR BOUND ROOTS ON INTERIOR OF THE ROOTBALL SHALL NOT BE ACCEPTED NATIVE SOIL-PREPARED PLANTING MIX — BACKFILL, SEE SPECS REMOVE TOP \$ OF BURLAP FROM TOP OF ROOTBALL; REMOVE WIRE CAGE, CLIP AND TWINE LIGHTLY TAMPED NATIVE SOIL SUPPORT TO PREVENT SETTLING 3x SIZE OF ROOTBALL

EVERGREEN TREE PLANTING







NOTES:

1. REGIONAL NATURAL BOULDERS
COMMON TO LOCAL AREA
2. BOULDERS SHOULD BE PLACED
W/APPROVAL FROM ENGINEER
3. ABOVE GRADE HT. WILL VARY AS
BOULDERS MUST BE PLACED IN

GROUND % THEIR TOTAL DIMENSION SEE PLAN FOR LAYOUT ARRANGEMENT AND SIZE

LARGE 2-3 MAN BOULDER - 4'-5' DIAMETER

SMALL 2 MAN BOULDER - 2'-3' DIAMETER

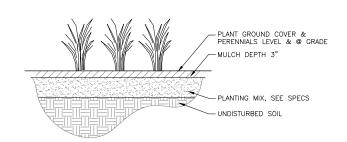
LANSCAPE BOULDERS

PLANTING SCHEDULE

REES		1		1
UANTITY		BOTANICAL NAME	COMMON NAME	NOTES
	ACAB	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE	B&B, 2" CAL
	CHOG	CUPRESSOCYPARIS LEYLANDII	LEYLAND CYPRESS	15 GALLON CONT.
	FREA	FRAXINUS PENNSYLVANICA 'SUMMIT'	'SUMMIT' GREEN ASH	2" CAL
6	JPVA	CUPRESSOCYPARIS LEYLANDII	LEYLAND CYPRESS	5 GALLON CONT
	PIFL	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID'	VANDERWOLFS' PYRAMID PINE	4'-5' HT
	PYCA	PYRUS CALLERYANA 'CAPITAL'	CAPITAL PEAR	2" CAL BALL & BURLAP
	TILA	ACER RUBRUM 'FAIRVIEW FLAME'	FAIRVIEW FLAME RED MAPLE	
84	THOE	THUJA OCCIDENTALIS 'EMERALD'	EMERALD AMERICAN ARBORVITAE	3'-5' HT, FULL
0	THOR	THUJA OCCIDENTALIS 'RHEINGOLD'	RHEINGOLD AMERICAN ARBORVITAE	5 GALLON CONT
47		TOTAL		
	& GROUN		-	
UANTITY		BOTANICAL NAME	COMMON NAME	SIZE & CONDITION
7	EULA	EUONYMUS ALATA	BURNING BUSH	2 GALLON CONT
6	GAGO	GAILLARDIA GRANDIFLORA 'GOBLIN'	GOBLIN BLANKET FLOWER	6" POT, FULL
65	HEFU	HEMEROCALLIS 'STELLA DE ORO'	DWARF DAYLILLY	1 GALLON CONT, FULL
61	JPH0	DIANTHUS CARYOPHYLLUS	PINK AND RED DIANTHUS	1 GALLON CONT, FULL
	JPSQ	JUNIPERUS SQUAMATA 'BLUE STAR'	BLUE STAR JUNIPER	1 GALLON CONT, FULL
40	LAVE	LAVANDULA ANGUSTIFOLIA 'MUNSTEAD'	MUNSTEAD LAVENDER	1 GALLON CONT, FULL
0	PIMU	PINUS MUGO 'COMPACTA'	COMPACT MUGO PINE	1 GALLON CONT, FULL
6	PISN	PINUS STROBUS 'BLUE SHAG'	EASTERN WHITE PINE	2 GALLON CONT
	YUFI	YUCCA FILAMENTOSA	ADAM'S NEEDLE	1 GALLON CONT, FULL
197		TOTAL		
RASSES				
UANTITY		BOTANICAL NAME	COMMON NAME	SIZE & CONDITION
81	CAAC	CALAMAGROSTIS ACUTIFLORA 'KARL FOERS.'	KARL FOERSTER FEATHER REED GRASS	1 GALLON CONT, FULL
5	MISL	MISCANTHUS SINENSIS 'SILBERFEDER'	SILVER FEATHER GRASS	1 GAL, FULL
07	MIML	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT MISCANTHUS	1 GAL, FULL
17	FEGL	FESTUCA GLAUCA 'SEA URCHIN'	SEA URCHIN BLUE FESCUE	1 GALLON CONT, FULL
90		TOTAL		
INES				
UANTITY		BOTANICAL NAME	COMMON NAME	SIZE & CONDITION
0	CARA	CAMPSIS RADICANS	TRUMPET VINE	1 GALLON CONT, 18" OC, TRAINED ON FENC
0	EUFO	EUONYMOUS FORTUNEI	WINTERCREEPER	1 GALLON CONT, 18" OC, TRAINED ON FENC
0		TOTAL		
EED MIX			T	
UANTITY		TYPE	SEED MIX	NOTES
,564	SF	SEED TYPE A - 'LAWN'	MOUNTAIN VIEW MIX	OR APPROVED EQUAL, SEE SPECIFICATIONS
,564	SF	TOTAL		
	1			OFF ODFOLFIONO FNOINFED ISSESSED
	CY	BARK DUST	3" DEPTH - IN ALL LANDSCAPE BEDS	SEE SPECIFICATIONS, ENGINEER APPROVED
5	CY	LANDSCAPE GRAVEL	LOCAL ROUND RIVER ROCK - 3" DEPTH	SEE SPECIFICATIONS, ENGINEER APPROVED
8	CY	B1 GRAVEL - BIOFILTER COVER	LAVA ROCK - COLOR RED	SEE SPECIFICATIONS, ENGINEER APPROVED
7	CY	B2 GRAVEL - BIOFILTER COVER	CONTRASTING COLOR CRUSHED ROCK	SEE SPECIFICATIONS, ENGINEER APPROVED
1	CY	B3 GRAVEL - BIOFILTER COVER	LAVA ROCK - COLOR BROWN	SEE SPECIFICATIONS, ENGINEER APPROVED
	CY	R1 GRAVEL - ROOF COVER	LAVA ROCK — COLOR RED	SEE SPECIFICATIONS, ENGINEER APPROVED
	CY	R2 GRAVEL - ROOF COVER	CONTRASTING COLOR CRUSHED GRAVEL	SEE SPECIFICATIONS, ENGINEER APPROVED
	CY	R3 GRAVEL - ROOF COVER	LAVA ROCK - COLOR BROWN	SEE SPECIFICATIONS, ENGINEER APPROVED
1	CY	TOTAL		
2	EA	LANDSCAPE BOULDERS	LOCAL RECIONAL STONE (2-3 MAN SIZED)	SEE SPECIFICATIONS, ENGINEER APPROVED

PLANTINGS AT NORTH GATE ENTRY - COLUMNAR HORNBEAM, BURNING BUSH, DIANTHUS

2) DIANTHUS TYPES: "FIVE STAR", "SHOOTING STAR", "RASPBERRY SURPRISE"



PERENNIAL & GROUND COVER





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			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	B. POWERS/
				S. HOEBER
			DRAWN	S. HOEBER
1	APR 2014	RECORD DRAWINGS	CHECKED	G. LAI
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

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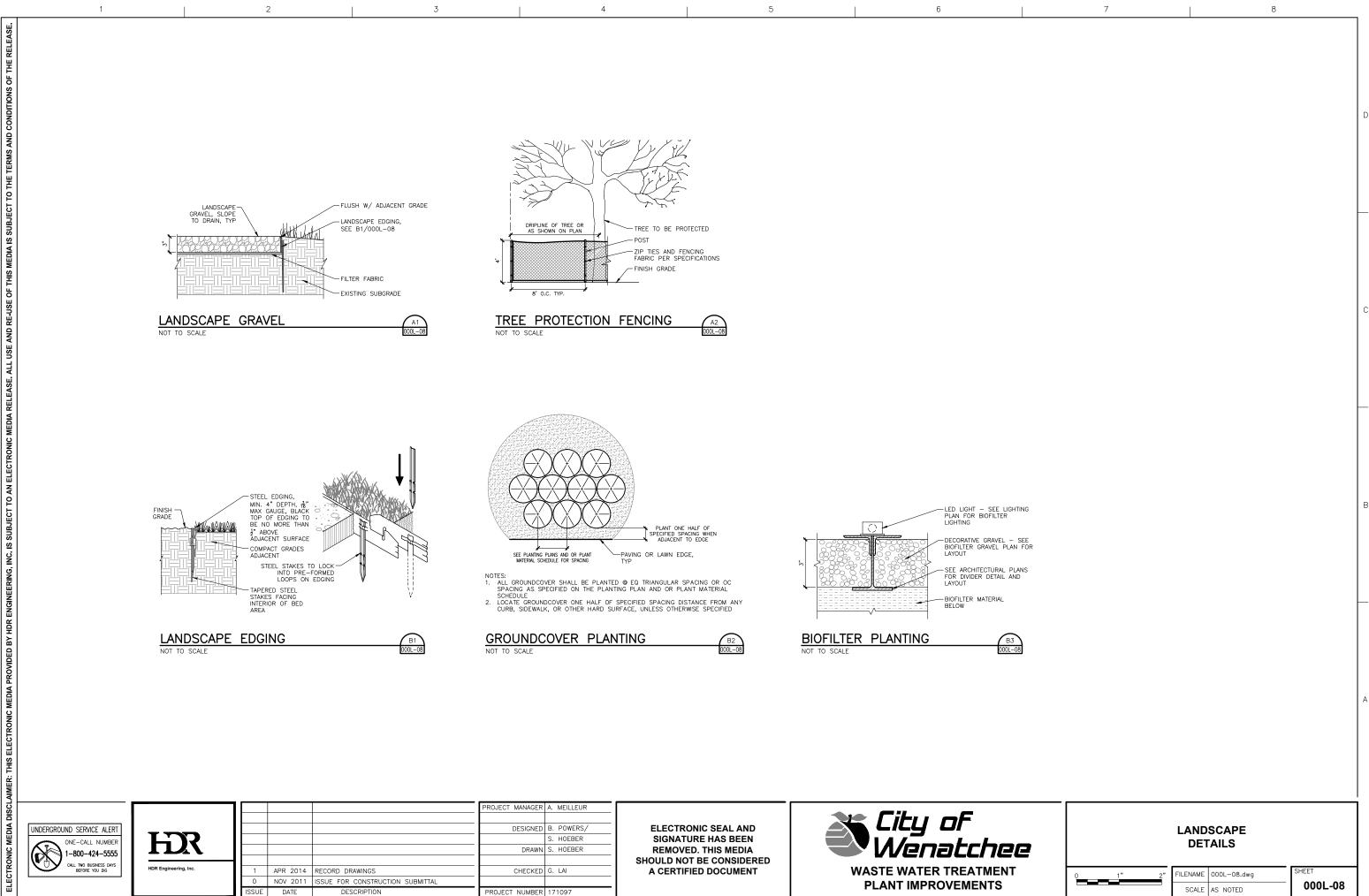
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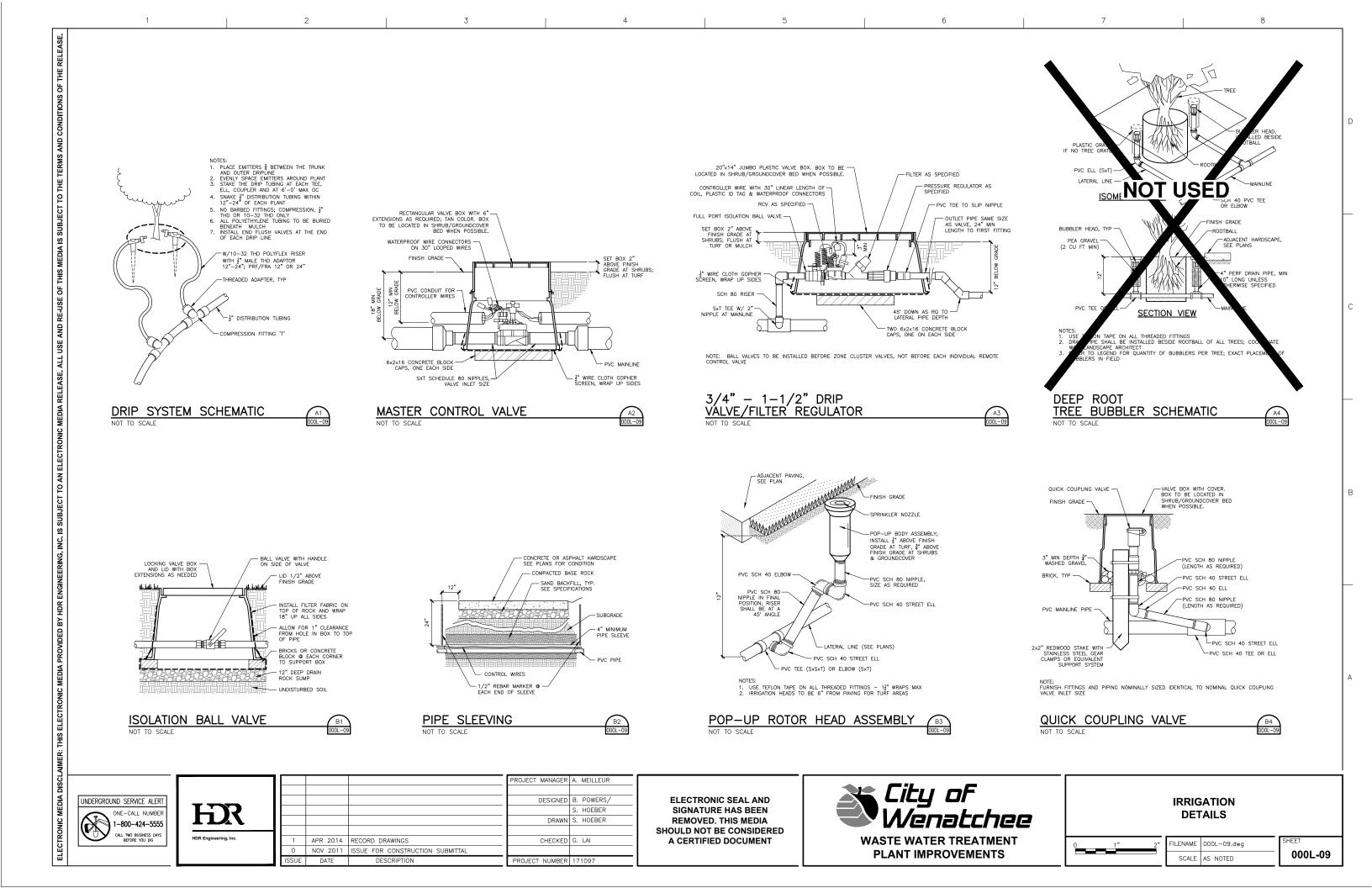
)		1	"		2"	FI
					-	

PLANTING
DETAILS

ILENAME 000L-07.dwg SCALE AS NOTED

	SHEET
-	000L-07





USE	COVER
SLAB BARS	1-1/2"
WALL BARS: INTERIOR FACES	1-1/2"
EXPOSED TO WEATHER OR EARTH	1-1/2" (#5 OR SMALLER) 2" (#6 OR LARGER)
FOOTING AND SLAB BARS CAST ON GROUND	3"
CONCRETE IN CONTACT WITH LIQUID	2"
WHEN WATER STOP ADJACENT TO OUTSIDE FACE OF REINFORCING	3"

EXTRA ACCESSORY BARS: IN ADDITION TO NORMAL ACCESSORIES USED TO HOLD REINFORCING STEEL FIRMLY IN POSITION, EXTRA ACCESSORY BARS SHALL BE USED AS FOLLOWS: C6 IN SLARS #5 RAISER BARS AT 36" OC MAX IN WALLS PROVIDE #3 U OR Z SHAPE SPACERS AT 6'-0" OC EW.

BAR LAP SPLICES: DOWELS SHALL BE SAME SPACING AS BARS WITH WHICH THEY ARE LAPPED. THE DOWEL EMBODIMENT SHALL PROVIDED FULL TENSION EMBEDMENT. VERTICAL REINFORCING BAR SPLICES IN COLUMNS SHALL HAVE AT LEAST 30 BAR DIAMETER LAP, UNO OR SHOWN ON DWG. ALL OTHER BAR SPLICES SHALL BE LAPPED IN ACCORDANCE TO THE REINFORCING DEVELOPMENT TABLES ON SHEET S2.

USE SPLICE LENGTH CLASS B UNLESS NOTED OTHERWISE. THE SPLICES SHALL BE STAGGERED AT LEAST THE LENGTH OF THE LAP SPLICES FROM FACE TO FACE. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF FRESH CONCRETE CAST

RESTRICTED BAR ANCHORAGE: IN CASES WHERE REINFORCING BARS CANNOT BE EXTENDED AS FAR AS REQUIRED DUE TO THE UNITED EXTENT OF THE ADJACENT CONCRETE STRUCTURE, THE BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN STANDARD HOOKS

C10 CHAMFERS: EXCEPT AS OTHERWISE REQUIRED, EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS. RE-ENTRANT CORNERS SHALL NOT HAVE FILLETS UNLESS OTHERWISE SHOWN.

ANCHOR BOLTS: INSTALLATION AND CAPACITY OF ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH IBC TABLE 1912.2. ALL BOLTS SHALL BE 316
STAINLESS STEEL UNLESS OTHERWISE NOTED. ADDITIONAL EMBEDMENT LENGTH REQUIRED FOR EQUIPMENT ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT SUPPLIER.

C12 ALL RE-ENTRANT CORNERS SHALL BE REINFORCED WITH 4#4@6
INSTALLED AT A 45° ANGLE TO THE CORNER WITH 48" LONG CENTERED ANCHOR

S1 STEEL SPECIFICATIONS: DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATION THAT INCLUDE BUT ARE NOT LIMITED TO: ERECTION ANGLES; LIFT HOLES; WELDING PROCEDURES;

CONNECTION MATERIAL, EMBEDDED ITEMS, CHANNELS, ANGLES, BASE PLATES, AND MISC STEEL ...ASTM A 36 STEEL TUBE ...ASTM A 500 GRADE B ...ASTM A 500 GRADE B STRUCTURAL BOLTS. ...ASTM A 325 N ANCHOR BOLTS ASTM A 193 ..ASTM A 36 ...E70XX THREADED RODS WELDING ELECTRODES.. .ASTM A611 SHEET STEEL GALVANIZED SHEET STEEL ASTM 65.3

ENCASED STEEL: STEEL COMPLETELY ENCASED IN CONCRETE SHALL NOT BE GALVANIZED OR PAINTED AND SHALL HAVE A CLEAN SURFACE FOR BONDING TO CONCRETE.

S5 ALL PAINT AND COATINGS SHALL BE IN ACCORDANCE WITH SPEC

FIBERGLASS

- F1 ALL GRATING SHALL BE FIBERGLASS-(FRP) EXCEPT WHERE OTHERWISE
- F2 ALL FRP GRATING SHALL BE 2" DEPTH W/ 2X2 MESH EXCEPT WHERE OTHERWISE NOTED
- F3 GRATING SUPPORTS IN THE SCREENING AREA SHALL BE FIBERGLASS.
- F4 ALL FRP MEMBERS & GRATING SHALL HAVE A UV PROTECTIVE COATING

STAINLESS STEEL

MATERIALS: STAINLESS BARS
AND SHAPES - ASTM A 484, FY = 30 KSI
STAINLESS STEEL PLATE SHEET AND STRIP - ASTM A 666 TYPE 316, FY = 30 KSI

ST2 FASTENERS: STAINLESS STEEL BOLTS - ASTM A193, TYPE 316 STAINLESS STEEL NUTS - ASTM A194, TYPE 316

ST3 WELDING MATERIALS AND PROCEDURES FOR WELDING STAINLESS STEEL SHALL BE IN ACCORDANCE WITH AWS D1.6.

MASONRY

M1 APPLICABLE CODE

MASONRY INSTALLATION AND REINFORCING SHALL CONFORM TO ALL THE REQUIREMENTS OF ACI530-02/ASCE 5-02/TMS 402-02 AND ACI 530.1-02/ASCE 6-02/TMS 602/02.

M2 MINIMUM COMPRESSIVE STRENGTH OF MASONRY

...1,500 PSI MIN

M3 MINIMUM REINFORCEMENT (UNLESS NOTED OTHERWISE)

HORIZONTAL #5@24"

EXTRA REINFORCING IS REQUIRED AT OPENINGS, SEE TYP DETAILS.

M4 REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60, DEFORMED BARS.

M5 MINIMUM COVER

ALL REINFORCING STEEL SHALL HAVE MINIMUM OF 2" COVER INCLUDING

M6 LAP SPLICES

LAP SPLICES SHALL BE 48 BAR DIAMETERS OR 24" MINIMUM WHICHEVER IS GREATER.

M7 RESTRICTED BAR ANCHORAGE

IN CASES WHERE REINFORCING BARS CANNOT BE EXTENDED AS FAR AS REQUIRED, THE BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN

M8 ANCHOR BOLTS

INSTALLATION AND CAPACITY OF ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH IBC 2009 TABLE 1912.2

ADHESIVE ANCHORS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DETAILS.

M9 SOLID GROUT

SOLID GROUT ALL CELLS UNO

DEFERRED SUBMITTALS

- METAL STAIRS, HANDRAIL AND LADDERS.
- ALUMINUM HANDRAIL.
- 3. GRATING AND GRATING SUPPORT STRUCTURES.
- 4. ACCESS HATCHES.

SYMBOLS

OPENING



HATCH SHOWING HINGES AT LEFT



DOUBLE HATCH SHOWING HINGES AT RIGHT AND LEFT

TYPICAL DETAILS: THE DETAILS SHOWN ARE TYPICAL AND SHALL BE USED FOR LIKE OR SIMILAR CONDITIONS NOT SHOWN.

UNDERGROUND SERVICE ALER

 $S_S = 50.5\%g$ $S_1 = 17.2\%g$

 $S_{ds} = 47.0\%g$ $S_{d1} = 24.2\%g$ I = 1.25

1/4-INCH PER FOOT ROOF.

STRUCTURAL CONCRETE PLACEMENT

MASONRY CONSTRUCTION (LEVEL 2)

REINFORCING STEEL PLACEMENT STRUCTURAL WELDING AND FIELD WELDING

SPECIAL GRADING, EXCAVATION, FILL AND SHORING

REGULATIONS.

HELICAL PIERS

SITE.

G3 DIMENSIONS: VERIFY ALL DIMENSIONS AND ALL CONDITIONS AT JOB

G4 PROVISIONS FOR EQUIPMENT: VERIFY AND COORDINATE ALL REQUIRED OPENINGS IN FLOORS, WALLS, AND ROOF WITH ALL DISCIPLINES.
MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES,

SITE INCLUDING BUILDING AND SITE CONDITIONS BEFORE COMMENCING WORK. COMMENCEMENT OF WORK INDICATES ACCEPTANCE OF FIELD

CONDITIONS. STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED

TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS. USE ONLY WRITTEN

OPENINGS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS

BUT REQUIRED BY OTHER CONTRACT DRAWINGS SHALL BE PROVIDED.

ALTERNATIVE DESIGNS: THE STRUCTURAL SYSTEMS AND DETAILS ON THESE PLANS ARE THE PRIORITY DESIGN. VARIATIONS AND MODIFICATIONS TO WORK SHOWN ON THESE DRAWINGS SHALL NOT BE CARRIED OUT WITHOUT WRITTEN PERMISSION FROM THE PROJECT

AS SHOWN ON DRAWINGS. MINIMUM SLOPE 1/8-INCH PER FOOT FLOOR,

G6 FLOOR AND ROOF DRAINS: SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND SIZES OF FLOOR AND ROOF DRAINS, SLOPE DRAINAGE SURFACES UNIFORMLY TO DRAIN. SLOPE SHALL E

G7 SEE SPECIFICATIONS FOR GEOTECHNICAL INFORMATION PERTAINING TO

G9 CONTRACTOR IS REQUIRED TO PROVIDE AND ENFORCE THE USE OF ALL SAFETY DEVICES IN ACCORDANCE WITH CURRENT OSHA & WISHA

G10 SEE CIVIL DRAWINGS FOR BUILDING LOCATION AND ORIENTATION ON THE

G11 <u>SPECIAL INSPECTIONS:</u>
SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH IBC SECTION 109 AND CHAPTER 17 ON THE FOLLOWING PORTIONS OF WORK:

ANCHORS, EMBEDS, AND BOLTS IN CONCRETE
HIGH STRENGTH BOLTS — TIGHTENING WHERE SPECIFIED AS SLIP

G8 BACKFILL: NO EARTH SHALL BE BACKFILLED AGAINST THE CONCRETE STRUCTURE UNTIL THE COMPLETED CONCRETE STRUCTURE HAS REACHED

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P

USE

TO AN

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THIS ELECTRONIC MEDIA PROVIDED BY

G5

HX

ROJECT MANAGER A. MEILLEUR . KORNHER DESIGNED DRAWN J. CONNER RECORD DRAWINGS CHECKED M. HIJAZI NOV 2011 ISSUE FOR CONSTRUCTION SUBMITTAL DATE DESCRIPTION PROJECT NUMBER 171097

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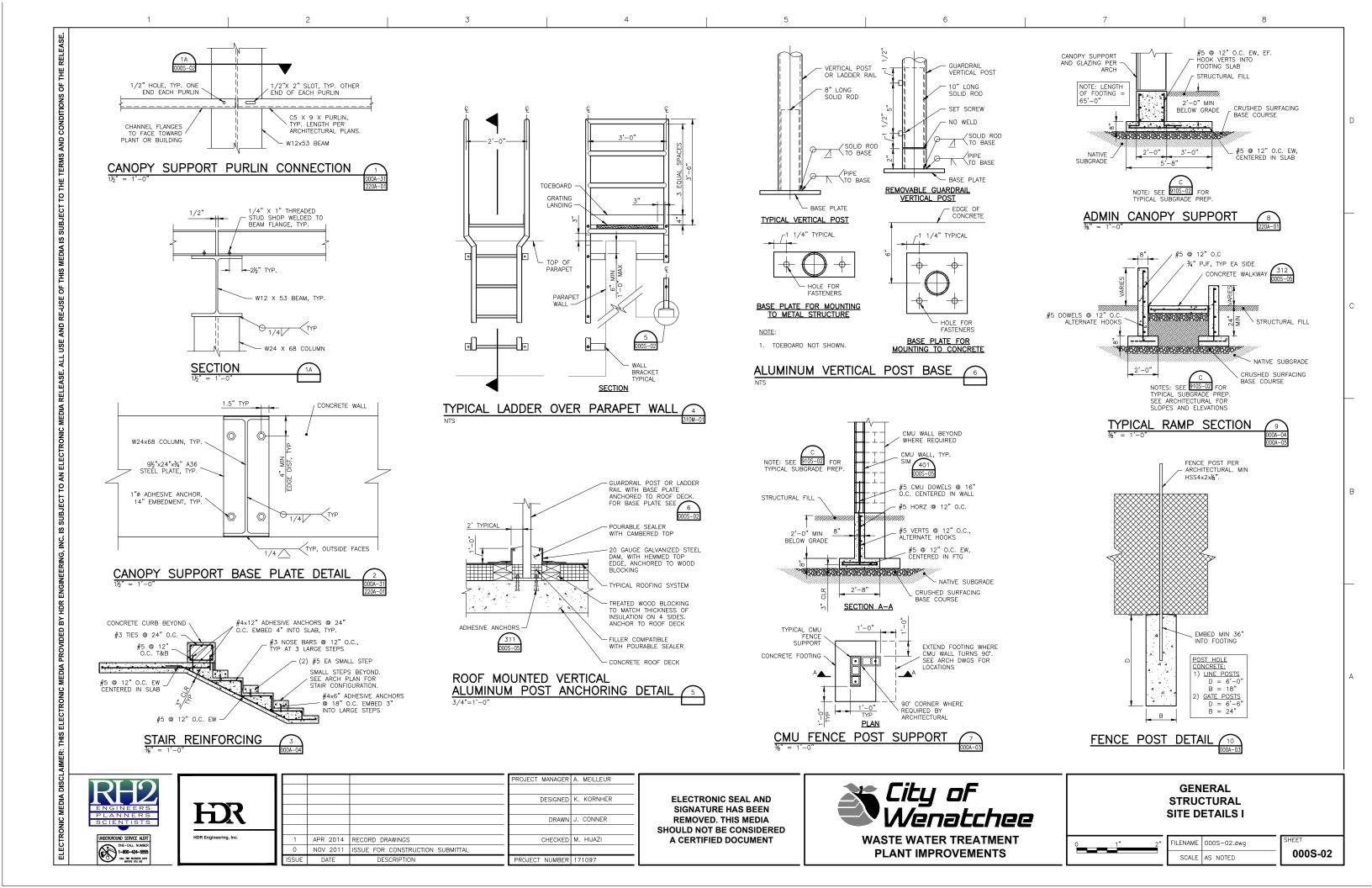
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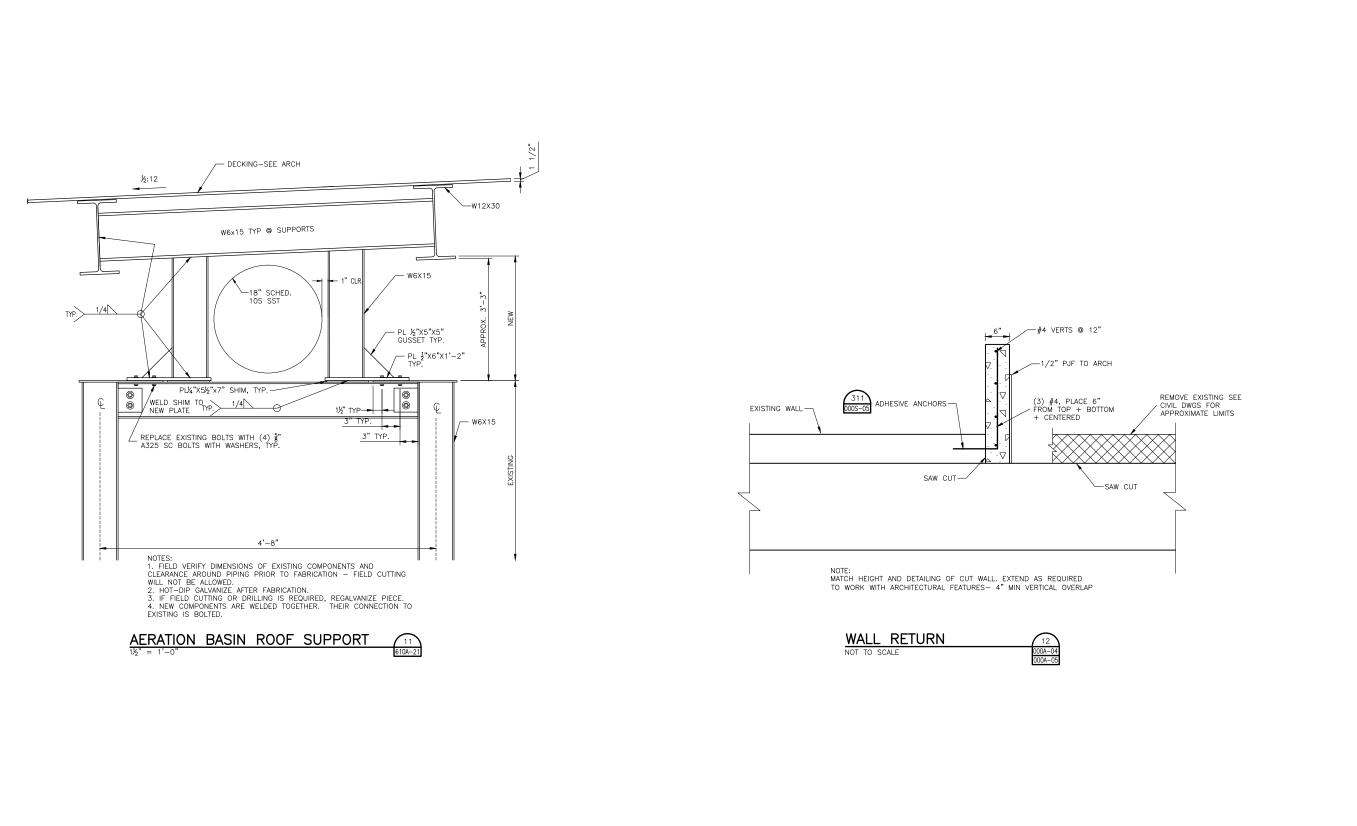
GENERAL STRUCTURAL GENERAL NOTES



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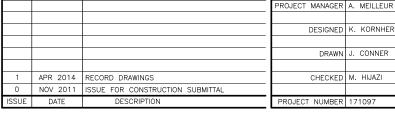
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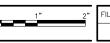
DESIGNED K. KORNHER

DRAWN J. CONNER

CHECKED M. HIJAZI



GENERAL STRUCTURAL SITE DETAILS II



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SCALE	AS NOTED	l

000S-03

1. THESE TABLES PERTAIN TO THE ACI 318

LAP LENGTHS SHOWN ARE FOR CLASS "B" TENSION SPLICES.

LAP LENGTHS AND EMBEDMENTS SHOWN ARE FOR BARS SPACED LATERALLY ® > FIVE TIMES THE BAR DIAMETER AND FOR MINIMUM COVER IN ACCORDANCE WITH ACI 318.

IF SPACING IS < 5 TIMES BAR DIAMETER, INCREASE LAP LENGTH AND EMBEDMENT

IS CAST IN THE MEMBER BELOW THE

TOP REINFORCING IS HORIZONTAL STEEL SO PLACED THAT MORE THAN 12" OF CONCRETE

- CONCRETE JOINT

FOR RECTANGULAR OPENINGS LARGER THAN 21" DIAGONAL

3" MIN BEYOND EQUIPMENT BOLTS, TYP #4 DOWELS, EACH

FLOOR

CORNER AND 18" O.C.

3" EMBEDMENT INTO

CAST-IN-PLACE

CONCRETE FLOOR, REINF. PER PLAN

NOTE: SEE MECHANICAL DRAWINGS FOR EQUIPMENT LOCATION AND DIMENSIONS.

TYPICAL CONCRETE EQUIPMENT PAD

CAST-IN-PLACE CONCRETE, ROUGHEN FLOOR UNDER PAD PRIOR TO POURING PAD. PROVIDE 4x4 W1.4xW1.4 WWM AT

34" CHAMFER - ALL OUTER EDGES

4" LINLESS

OTHERWISE NOTED

TOP FACE WITH 11/2" CLEAR COVER

EXTRA BARS BELOW	EACH FACE	AS TABULATED	
CONCRETE THICKNESS	BAR <u>SIZE</u>		
< 12" 12" – 18"	4		

> 18" C=THE REQUIRED LENGTH FOR LAPPED SPLICE FOR OTHER BARS AS SHOWN ON IS 10" OR LESS

FOR CIRCULAR OPENINGS LARGER THAN 21" DIAGONAL

EXTRA BARS NOT REQUIRED AT SLEEVES OR WALL PIPES WHEN REINFORCEMENT IS NOT CUT AND OD

#5 BAR x 3'-0"

21" AND SMALLER DIAMETER OPENINGS

¾6"x1" DEEP SAWED OR FORMED CONTROL JOINT, FILL WITH SEALANT

NTS

CONCRETE OPENING REINFORCING DETAILS

REINFORCING LAP & EMBEDMENT TABLES

MIN EMBEDMENT LENGTH (MEL)

COMPRESSION

(INCHES)

12

14

17

19

21

24

27

BAR SIZE	HL	нw	TL	D	f'c=4.0 OR 4.5 KSI
GRADE 60	'''	''''	''-		Ldh *
#3	6"	3"	3"	2 1/4"	6"
#4	8"	4"	4 1/2"	3"	7"
#5	10"	5"	5"	3 3/4"	9"
#6	1'-0"	6"	6"	4 1/2"	10"
#7	1'-2"	7"	7"	5 1/4"	12"
#8	1'-4"	8"	8"	6"	14"
#9	1'-7"	11 3/4"	10 1/2"	9 1/2"	15"
#10	1'-10"	1'-1 1/4"	11 1/2"	10 3/4"	17"
#11	2'-0"	1'-2 3/4"	1'-1"	12"	19"

fc >= 4000 psi fy = 60,000 psi

(INCHES)

19

24

28

42

54

60

67

MIN SPLICE LAP LENGTH

OTHER*

(INCHES)

18

25

31

37

54

62

70

87

TOP BARS

(INCHES)

24

.32

40

48

70

80

90

102

113

#4

#6

#7

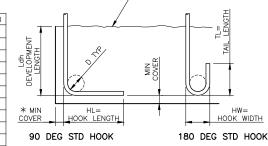
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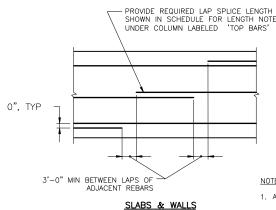
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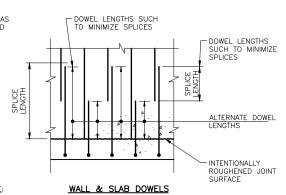


NOTES:

* COMPLYING WITH MINIMUM COVER REQUIREMENTS OF ACI 318, 12.5.3. OTHERWISE Ldh MUST BE RE-CALCULATED.

REINFORCING HOOK SCHEDULE



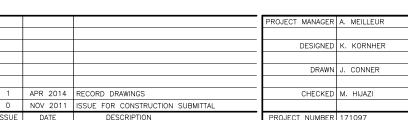


1. APPLIES TO SLABS, WALLS (BOTH HORIZONTAL AND VERTICAL)

2. LAP SPLICES SHALL NOT COINCIDE IN POSITION ANYMORE FREQUENTLY THAN EVERY THIRD BAR, CENTER AND EVERY OTHER BAR AT WALL & SLAB EDGES.

3. SPLICE LOCATION IS TO BE STAGGERED FROM FACE TO FACE OF WALL & SLAB

REINFORCING SPLICE STAGGER

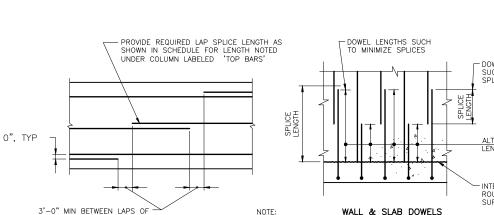


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City of Wenatchee WASTE WATER TREATMENT

GENERAL STRUCTURAL STANDARD DETAILS I

ILENAME 000S-04.dwg 000S-04 SCALE AS NOTED



STD END

TYPICAL CONCRETE CORNER REINFORCING



HR

CONTROL JOINT (CLJ)

INTERRUPT ½ OF REINFORCING PASSING

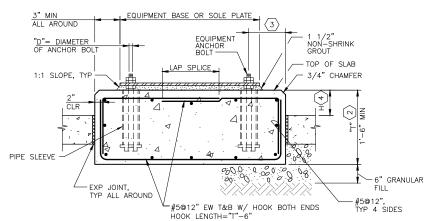
THRU JOINT ALL MATS

BACK-TO-BACK AT WALLS, CONTRACTOR'S OPTION.

2. DETAIL TO BE USED AT BOTH WALLS AND SLABS

A = SUFFICIENT LENGTH TO PERMIT BARS TO EXTEND THROUGH THE WALL TO THE OPPOSITE FACE AND TERMINATE WITH A LAP SPLICE.

PLANT IMPROVEMENTS



- 1) EQUIPMENT PAD DIMENSIONS SHALL BE AS DETERMINED BY EQUIPMENT MANUFACTURER'S
- 2) PAD THICKNESS "T" AS REQUIRED BY EQUIPMENT MANUFACTURER, PAD DIMENSIONS, ANCHOR BOLL SIZE AND LOCATION AND EQUIPMENT BASE OR SOLE PLATE SHALL CONFORM TO EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- 3) THE EDGE DISTANCE ON THE ANCHOR BOLTS SHALL NOT BE LESS THAN 6" OR 8 x "D".
- 4) HEIGHT VARIES TO SUIT EQUIPMENT FURNISHED OR AS INDICATED ON THE DRAWINGS, 6" MINIMUM
- 5) PIPE SLEEVES SHALL BE USED TO PROVIDE THE ANCHOR BOLT A MINIMUM MOVEMENT OF $\frac{1}{2}$ " IN ALL DIRECTIONS. MIN SLEEVE LENGTH SHALL BE 8x THE BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHIRNK GROUT. SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER OF 1" GREATER THAN BOLT DIAMETER AND MAX INTERNAL DIAMETER OF 3" GREATER THAN BOLT DIAMETER.

ISOLATED CONCRETE EQUIPMENT PAD DETAIL

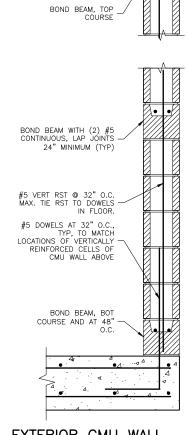
34" DEEP TOOLED JT'S AT INTERVAL EQUAL TO WIDTH, OR

2% SLOPE

AS INDICATED ON PLAN -

6" COMPACTED GRANULAR FILL

COMPACTED SUBGRADE



- PROVIDE 2-#5 AT CORNERS AND ENDS OF WALLS, TYP. EXTEND FULL WALL HEIGHT AND DOWEL INTO WALL OR FOOTING BELOW OR SPLICE AS NOTED 2-#5 IN BOND BEAM AT TOP OF WALL AND AT BEAM AND JOIST SEATS ON DRAWINGS. L SEE BEAM
LINTEL DETAIL & NOTES SEE BEAM LINTEL DETAI **TYPICAL** PROVIDE 2-#5 AT ALL OPENINGS, EXTEND FULL WALL HEIGHTS, DOWEL INTO FOOTING OR WALL BELOW OR SPLICE AS ∠2-#5, SEE NOTE 2 NOTED ON DRAWING (TYP ALL EXTRA BARS) HORIZONTAL REINFORCING TO END WITH OR BE SPLICED WITH A BAR ENDING WITH A STD 180° HOOK AT FACE OF ALL OPENINGS CMU OPENING REINFORCING





-6x6-W2.9xW2.9 WWF, CTR

CONCRETE ADHESIVE ANCHOR SCHEDULE

CMU ADHESIVE

ANCHOR SCHEDULE

GROUTED CMU CELLS EDGE DISTANCE

UNGROUTED CMU CELLS (LIMIT 1 ANCHOR PER CELL)

1. ALLOWABLE LOADS GIVEN FOR ANCHORS IN GROUTED CMU CELLS ARE BASED ON HILTI HIT—HY 150 MAX ANCHORING SYSTEM 2. ALLOWABLE LOADS GIVEN FOR ANCHORS IN UNGROUTED CMU CELLS ARE BASED ON HILTI HIT-HY 20 HYBRID ADHESIVE

TENSION

(LBS)

880

1055

1370

1580

255

370

525

525

SHEAR

(LBS)

1135

1745

2120

2205

340

505

790

1230

			REINFORC	ING BARS		
BAR SIZE	EMBE D LENG TH	MIN CONC THICKNE SS	MIN EDGE DISTANC E	MIN ANCHOR SPACING	ALLOWABLE TENSION (LBS)	ALLOWABLE SHEAR (LBS)
#5	6"	7½"	7½"	10"	5,535	7,195
#6	7"	10½"	10½"	14"	8,783	11,418
#7	8"	1 11/4"	1 11/4"	15"	9,968	12,959
#8	9"	12"	12"	16"	11,201	14,562
		ANCHO	R BOLTS/	THREADED F	RODS	
¾"	5"	51/4"	5¼"	7"	3,105	2,519
½"	6"	6½"	6½"	8½"	4,371	5,440
%"	7"	7½"	7½"	10"	5,535	7,195
3/4"	8"	10	10	13¼"	8,274	10,757

MEDIA IS SUBJECT TO THE TERMS AND CONDITIONS OF THE RELEASE.

AND RE-USE OF

THIS ELECTRONIC MEDIA PROVIDED BY HDR ENGINEERING, INC. IS SUBJECT TO AN ELECTRONIC

ANCHOR

%"

1/4"

5∕16"

%"

1/2"

ANCHORING SYSTEM

LENGTH

(IN)

3½"

4½"

5%"

6¾"

N/A

N/A

N/A

N/A

1. ALLOWABLE LOADS GIVEN ARE BASED ON HILTI HIT-RE 500-SD EPOXY ANCHORS.

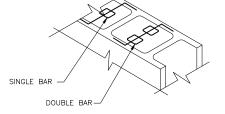
2. SEE SPECIFICATIONS (5500) FOR ALLOWABLE ANCHORS EMBEDMENT LENGTHS SHOWN ARE MINIMUM. PROVIDE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

ADHESIVE ANCHOR



PROVIDE FULL DEPTH 3/8" PREMOLDED EXPANSION JOINT FILLER ALL AROUND AT ALL UTILITY POLES, METER BOXES, ETC.

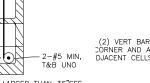




PROVIDE GALVANIZED 9 GAGE POSITIONER AT ALL VERTICAL REINFORCING BARS. LOCATE POSITIONERS AT SECOND COURSE FROM TOP AND BOTTOM OF WALL, AND AT A MAXIMUM VERTICAL SPACING OF

TIE HORIZONTAL BARS TO VERTICAL BARS WITH IN 1 VERTICAL BAR SPACING FROM THE CORNERS AND AT A MAXIMUM HORIZONTAL SPACING OF 8'-0"

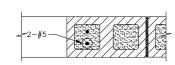




FOR OPENINGS, LARGER THAN 36"SEE LARGE BEAM LINTEL.

LOW-WEB BOND BEAM ARE NOT ACCEPTABLE OVER OPENINGS OR WITHIN THE EXTENDED BAR ZONE ADJACENT TO

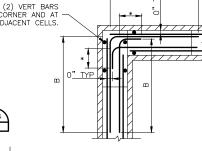
BEAM LINTEL DETAIL

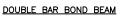


NOTES

- 1. APPLIES TO ALL OPENINGS, INCLUDING LOUVERS AND OPENINGS FOR GLASS BLOCK.
- 2. EXTENDED 48 BAR DIA PAST OPENING EACH SIDE WHERE APPLICABLE.
- 3. ALL HORIZONTAL REINFORCING AT EDGE OF OPENINGS AND WALL ENDS ARE TO END WITH STANDARD HOOKS.
 THE HOOKS MAY BE PLACED FACING UP OR DOWN AS
 REQUIRED SO LONG AS THEY ARE NOT TO BE
 EXPOSED AT WALL CAP.







 ${\sf A}={\sf SUFFICIENT}$ LENGTH TO PERMIT BARS TO EXTEND THROUGH THE WALL TO THE OPPOSITE FACE AND TERMINATE WITH A LAP SPLICE, AS SHOWN ON THIS SHEET.

B = PROVIDE TWICE THE LAP LENGTH NOTED BELOW

- $\mathsf{C} = \mathsf{SUFFICIENT}$ LENGTH TO PERMIT BARS TO EXTEND THROUGH THE WALL TO THE OPPOSITE FACE AND TERMINATE IN A STANDARD HOOK, AS SHOWN ON THIS SHEET.
- * NOT LESS THAN STANDARD END HOOK
- XX EXTRA BARS SAME SIZE AND AT SAME SPACING AS HORIZONTAL STEEL. ADD EXTRA BARS ONLY WHEN CALL FOR ON DRAWINGS.

CMU CORNER REINFORCING DETAIL







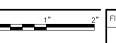
			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	K. KORNHER
			DRAWN	J. CONNER
1	APR 2014	RECORD DRAWINGS	CHECKED	M. HIJAZI
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

ELECTRONIC SEAL AND SIGNATURE HAS BEEN **REMOVED. THIS MEDIA** SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

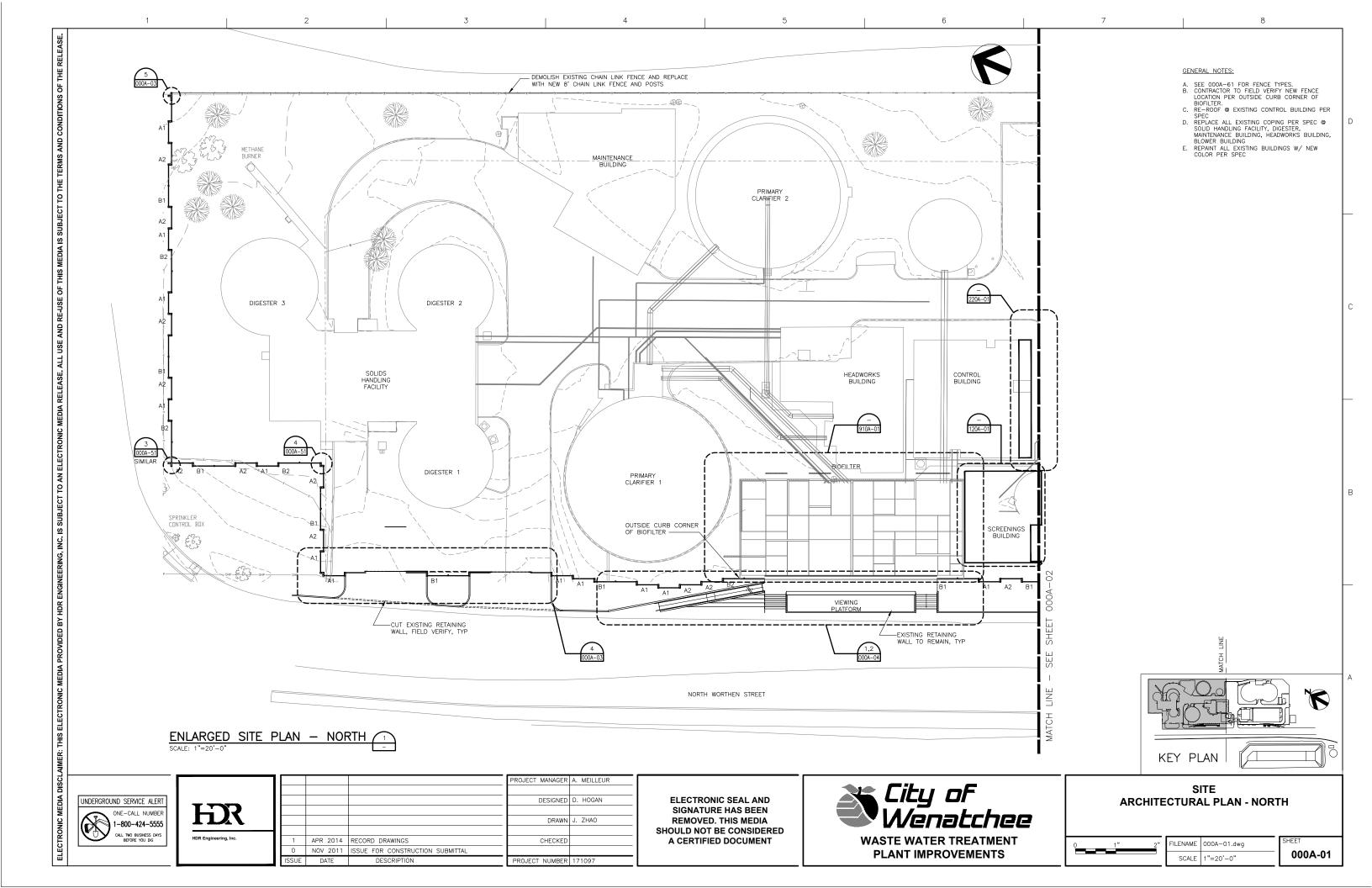


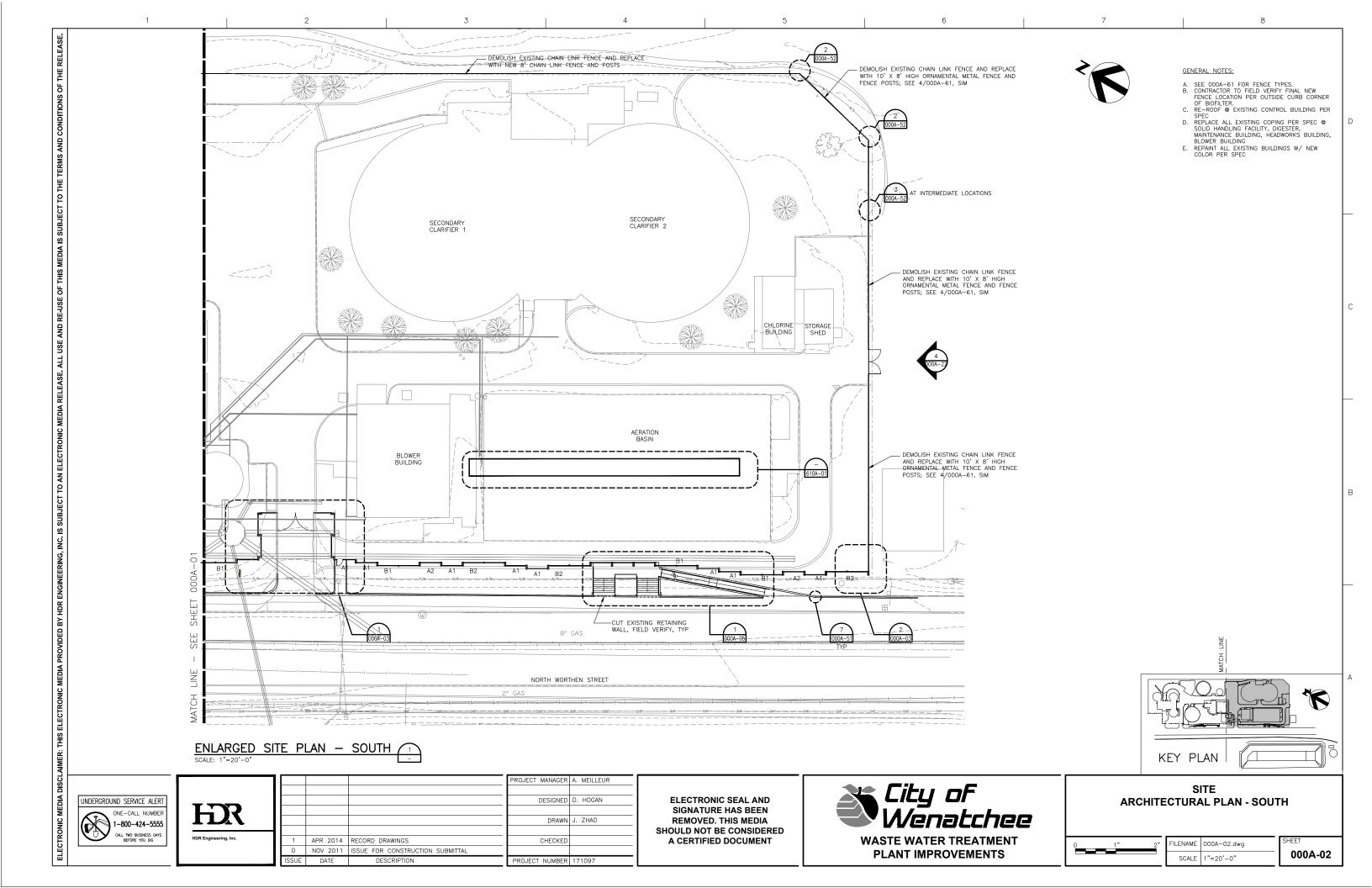
WASTE WATER TREATMENT **PLANT IMPROVEMENTS**

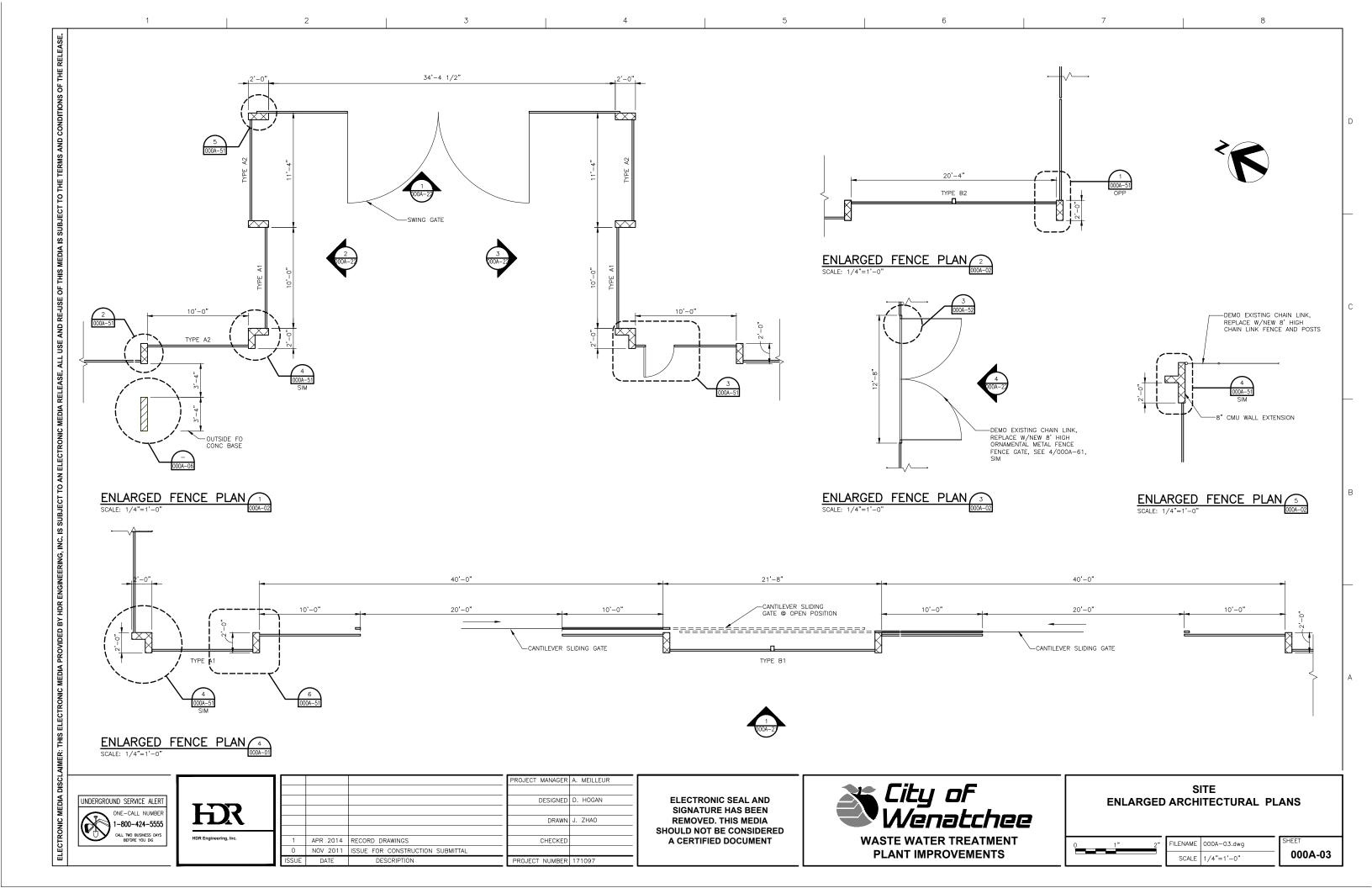


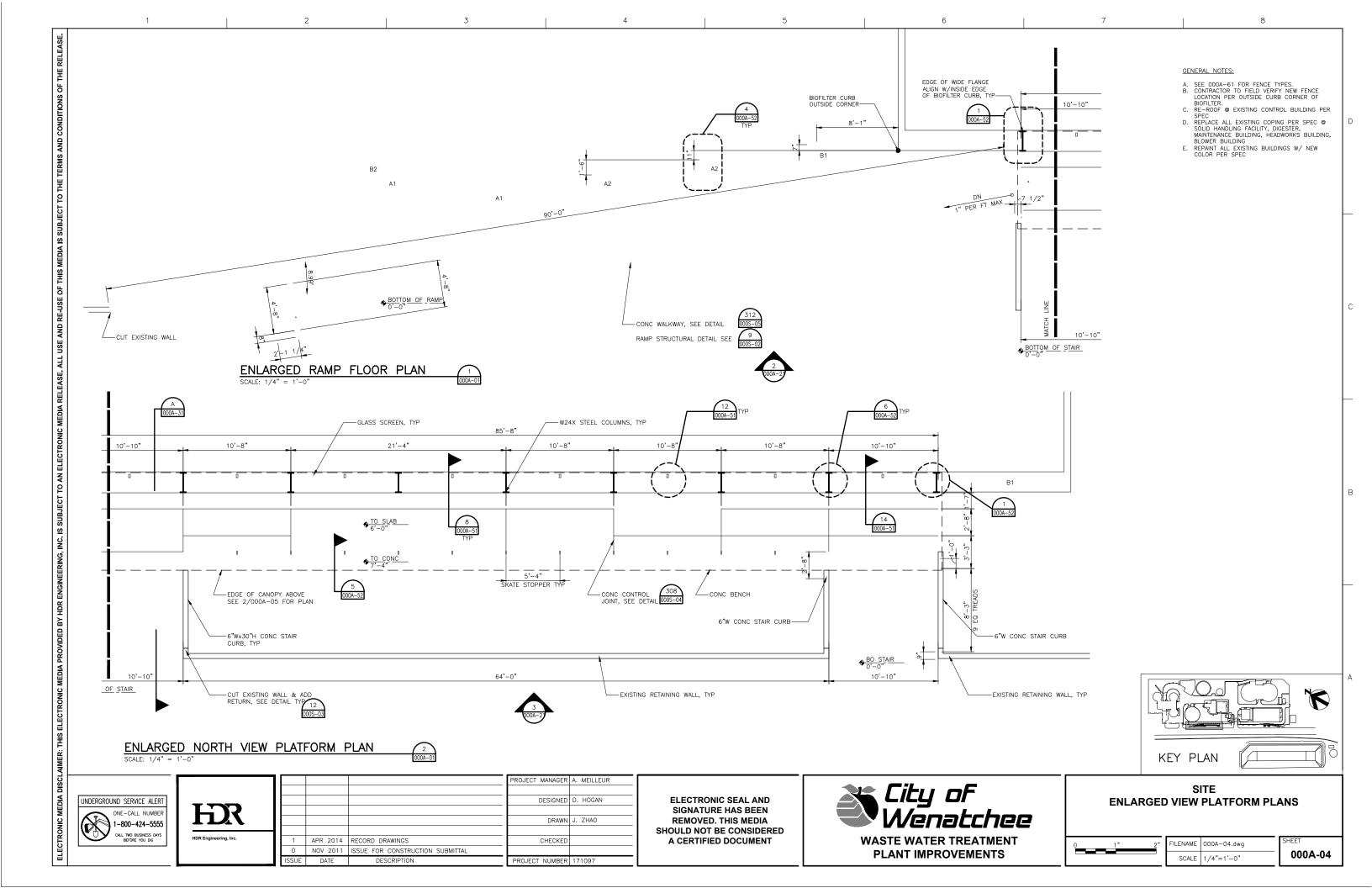


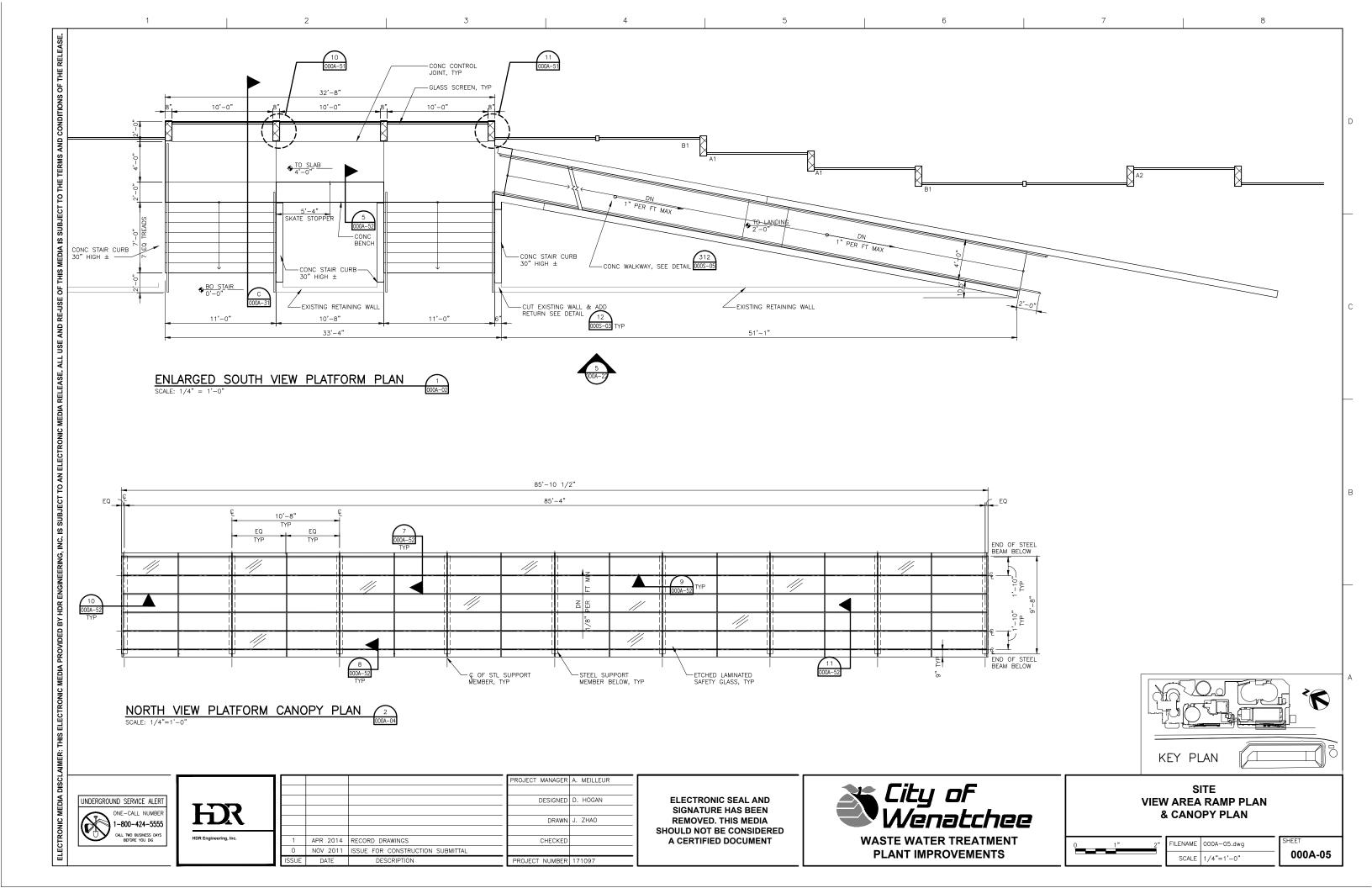
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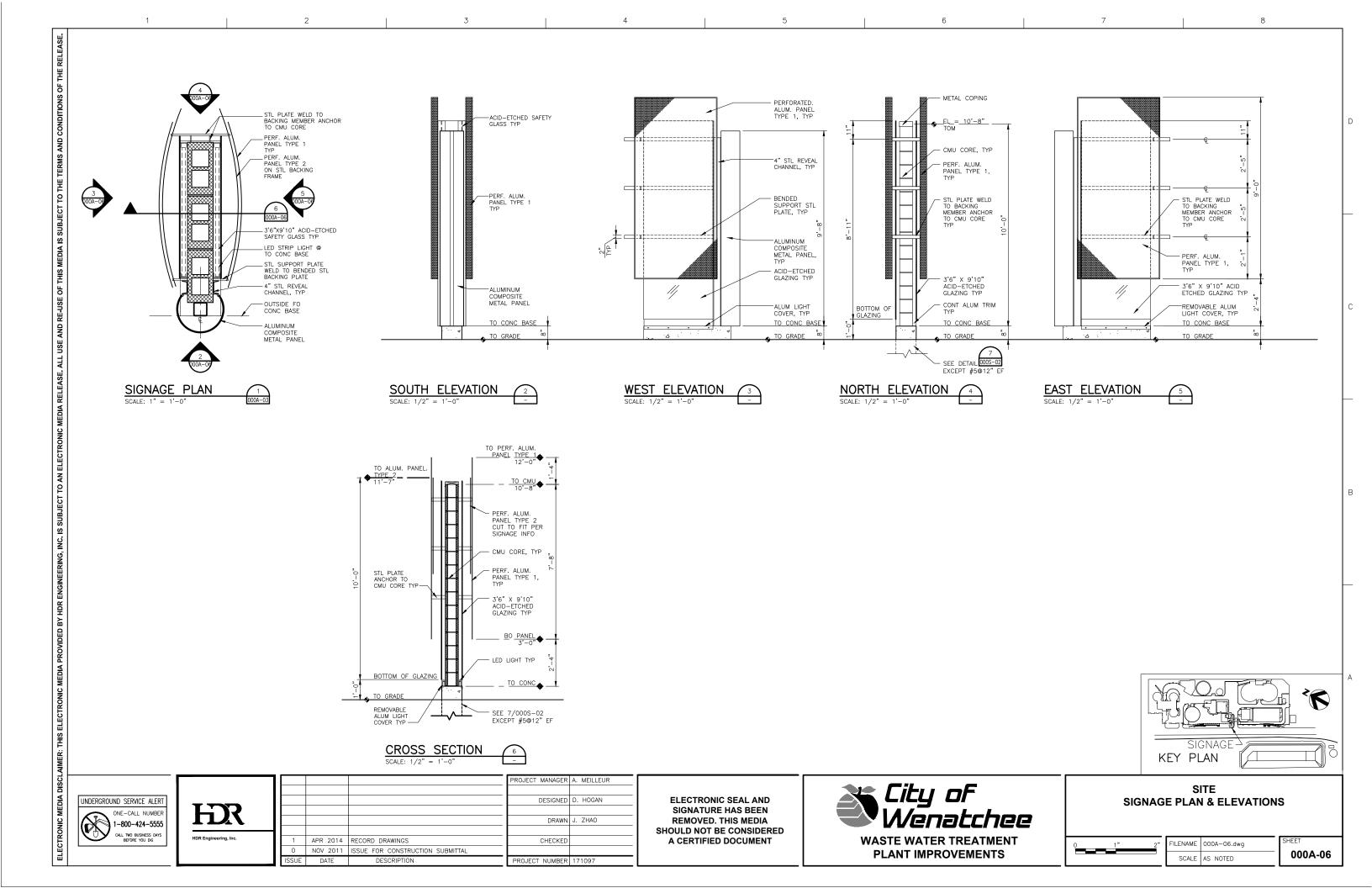












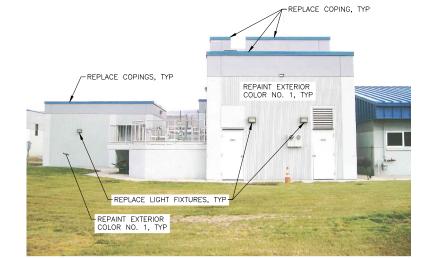
-REPLACE METAL ROOFING, GUTTERS AND FASCIA, TYP REPAINT EXTERIOR COLOR NO. 1, TYP REPLACE DOWNSPOUTS, TYP NOTE: REPLACE SOFFIT CONTROL BUILDING - EAST

REPLACE METAL ROOFING, GUTTERS AND FASCIA, TYP REPAINT EXTERIOR COLOR NO. 1, TYP NOTE: REPLACE SOFFIT

CONTROL BUILDING - SOUTH



CONTROL BUILDING - WEST



HEADWORKS BUILDING - WEST



HEADWORKS BUILDING - NORTHWEST





GENERAL NOTES (SHEET 00A-07 THRU 00A-012): ALL NEW AND REPLACED LIGHTING FIXTURE LOCATIONS TO BE FIELD LOCATED AND VERIFIED BEFORE ORDERING AND MOUNTING.

2. LIGHTING CONTRACTOR TO FURNISH AND INSTALL LIGHTS PER THE LIGHTING FIXTURES SCHEDULE AND ARCHITECTURAL THEME LIGHTING SCHEDULE ON SHEET 000E-14.

3. AS NOTED ON DETAILS, CONTRACTOR TO "REPAINT EXTERIOR COLOR NO. 1," IS DEFINED AS THE ENTIRE EXTERIOR OF THE BUILDING, INCLUDING HANDRAILS, LOUVERS, DOORS, PIPING, ETC. ARE TO BE PAINTED ALONG WITH THE CONCRETE WALLS IN ONE COLOR.

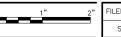
1	APR 2014	RECORD DRAWINGS
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL
ISSUE	DATE	DESCRIPTION

	PROJECT MANAGER	A. MEILLEUR	Г
			l
	DESIGNED	D. HOGAN	l
			l
	DRAWN	B. LILLY	l
			l
	CHECKED		l
			l
_	PROJECT NUMBER	171097	
_			

ELECTRONIC SEAL AND SIGNATURE HAS BEEN **REMOVED. THIS MEDIA** SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT



ARCHITECTURE EXISTING BUILDING MODIFICATIONS 1



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SCALE	NOT TO SCALE

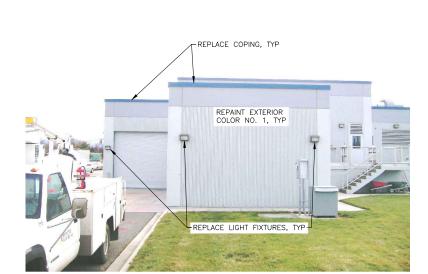
2

REPLACE COPING, TYP-

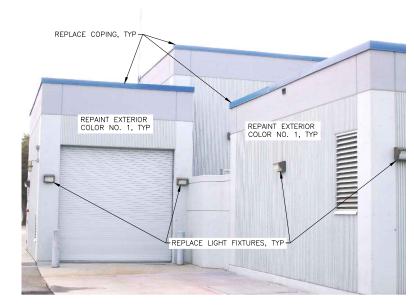
REPLACE LIGHT FIXTURES, TYP-

HEADWORKS BUILDING - NORTH

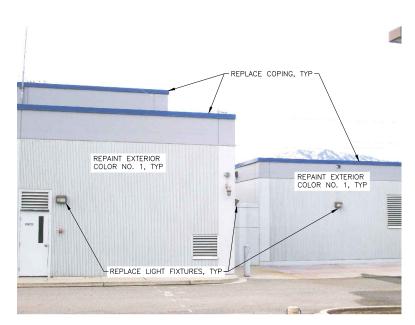
REPAINT EXTERIOR COLOR NO. 1, TYP 4 5



HEADWORKS BUILDING — NORTH



HEADWORKS BUILDING - NORTHEAST



HEADWORKS BUILDING — EAST



SOLIDS HANDLING BUILDING - NORTH



SOLIDS DIGESTER NO. 3 - NORTHWEST





APR 2014	RECORD DRAWINGS
NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL
DATE	DESCRIPTION
	NOV 2011

PROJECT MANAGER	A. MEILLEUR	Г
		l
DESIGNED	D. HOGAN	l
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DRAWN	B. LILLY	l
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CHECKED		l
PROJECT NUMBER	171097	
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ARCHITECTURE
EXISTING BUILDING MODIFICATIONS 2



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SCALE	NOT TO SCALE	



SOLIDS DIGESTER NO. 3 - SOUTHEAST



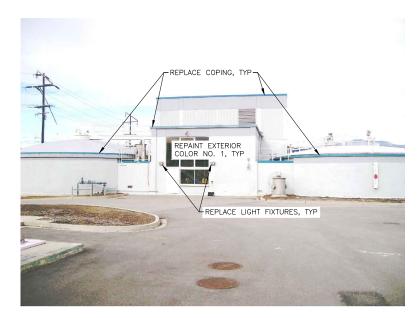
SOLIDS HANDLING BUILDING - EAST



SOLIDS DIGESTER NO. 2 - NORTHEAST



SOLIDS DIGESTER NO. 2 - SOUTH



SOLIDS HANDLING BUILDING - SOUTH



SOLIDS HANDLING BUILDING - SOUTH





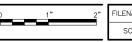
			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	D. HOGAN
			DRAWN	B. LILLY
1	APR 2014	RECORD DRAWINGS	CHECKED	
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

DESIGNED	D. HOGAN	ELECTRON
		SIGNATUR
DRAWN	B. LILLY	REMOVED.
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CHECKED		A CERTIFIE
DO IDOT NILIMBED	171007	I

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ARCHITECTURE EXISTING BUILDING MODIFICATIONS 3



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REPAINT EXTERIOR COLOR NO. 1, TYP

SOLIDS DIGESTER NO. 1 — SOUTHEAST



SOLIDS DIGESTER NO. 1 - WEST



SOLIDS HANDLING BUILDING - WEST



BLOWER BUILDING - NORTH



BLOWER BUILDING - EAST
NOT TO SCALE



BLOWER BUILDING — SOUTH





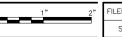
1	APR 2014	RECORD DRAWINGS
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL
ISSUE	DATE	DESCRIPTION

	PROJECT MANAGER	A. MEILLEUR	
	DESIGNED	D. HOGAN	
			ı
	DRAWN	B. LILLY	ı
			ı
	CHECKED		
_	PROJECT NUMBER	171097	
_			

ELECTRONIC SEAL AND SIGNATURE HAS BEEN REMOVED. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT



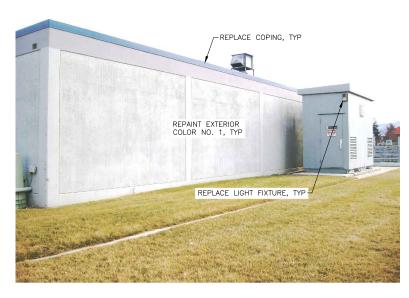
ARCHITECTURE
EXISTING BUILDING MODIFICATIONS 4



ILENAME	000A-10.dwg
SCALE	NOT TO SCALE

BLOWER BUILDING MCC ROOM — SOUTH

REPLACE LIGHT FIXTURE, TYP



BLOWER BUILDING — WEST



BLOWER BUILDING MCC ROOM - NORTHWEST



UV BUILDING - WEST



UV BUILDING - SOUTH



CHLORINE BUILDING & SHED - NORTHWEST
NOT TO SCALE





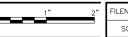
1	APR 2014	RECORD DRAWINGS
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	A. MEILLEUR	Г
		l
DESIGNED	D. HOGAN	l
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DRAWN	B. LILLY	l
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CHECKED		l
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PROJECT NUMBER	171097	L
	DESIGNED DRAWN CHECKED	

ELECTRONIC SEAL AND SIGNATURE HAS BEEN REMOVED. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT



ARCHITECTURE
EXISTING BUILDING MODIFICATIONS 5



FILENAME	000A-11.dwg
SCALE	NOT TO SCALE

^{неет} 000**A-11**

CHLORINE BUILDING & SHED - EAST
NOT TO SCALE



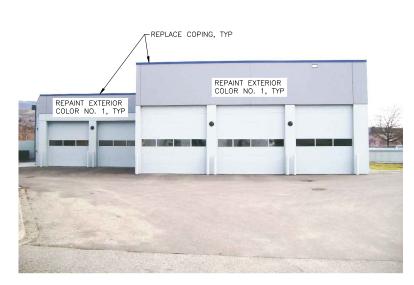
CHLORINE BUILDING & SHED - SOUTHWEST



CHLORINE BUILDING & SHED - WEST



MAINTENANCE BUILDING - NORTH



MAINTENANCE BUILDING - EAST



MAINTENANCE BUILDING - SOUTH





			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	D. HOGAN
			DRAWN	B. LILLY
1	APR 2014	RECORD DRAWINGS	CHECKED	
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

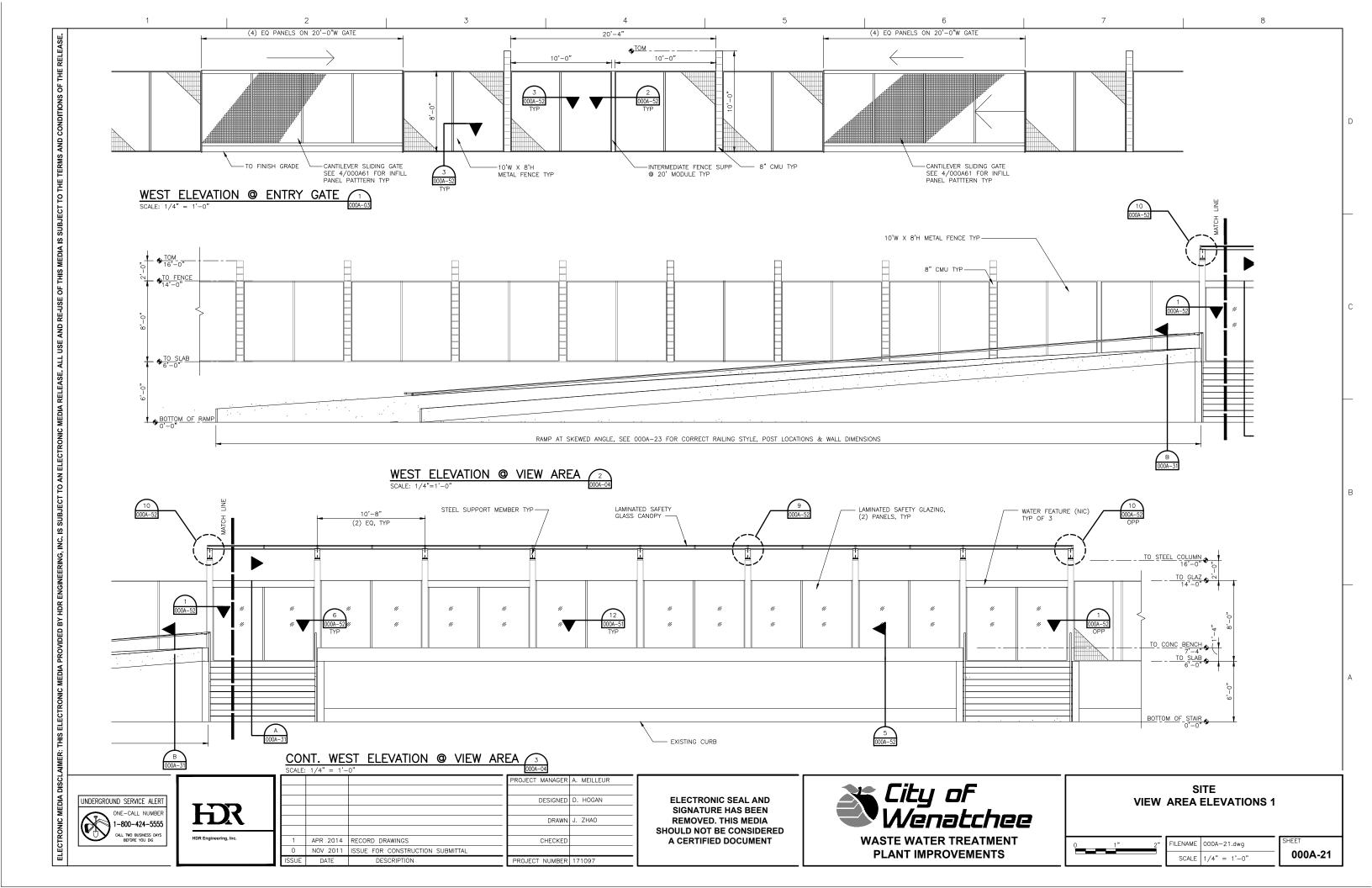
DESIGNED . HOGAN DRAWN B. LILLY CHECKED ROJECT NUMBER 171097

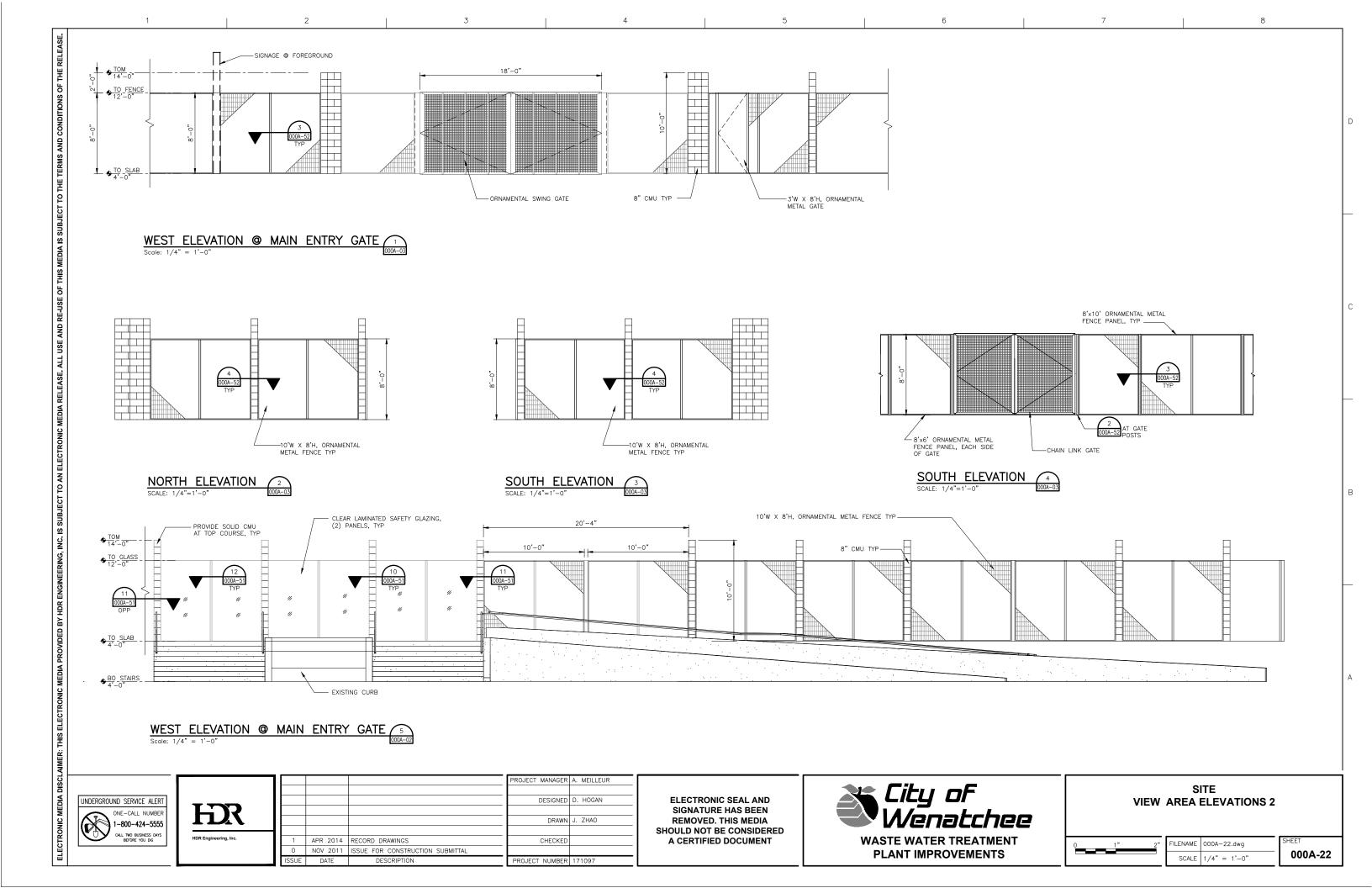
ELECTRONIC SEAL AND SIGNATURE HAS BEEN **REMOVED. THIS MEDIA** SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

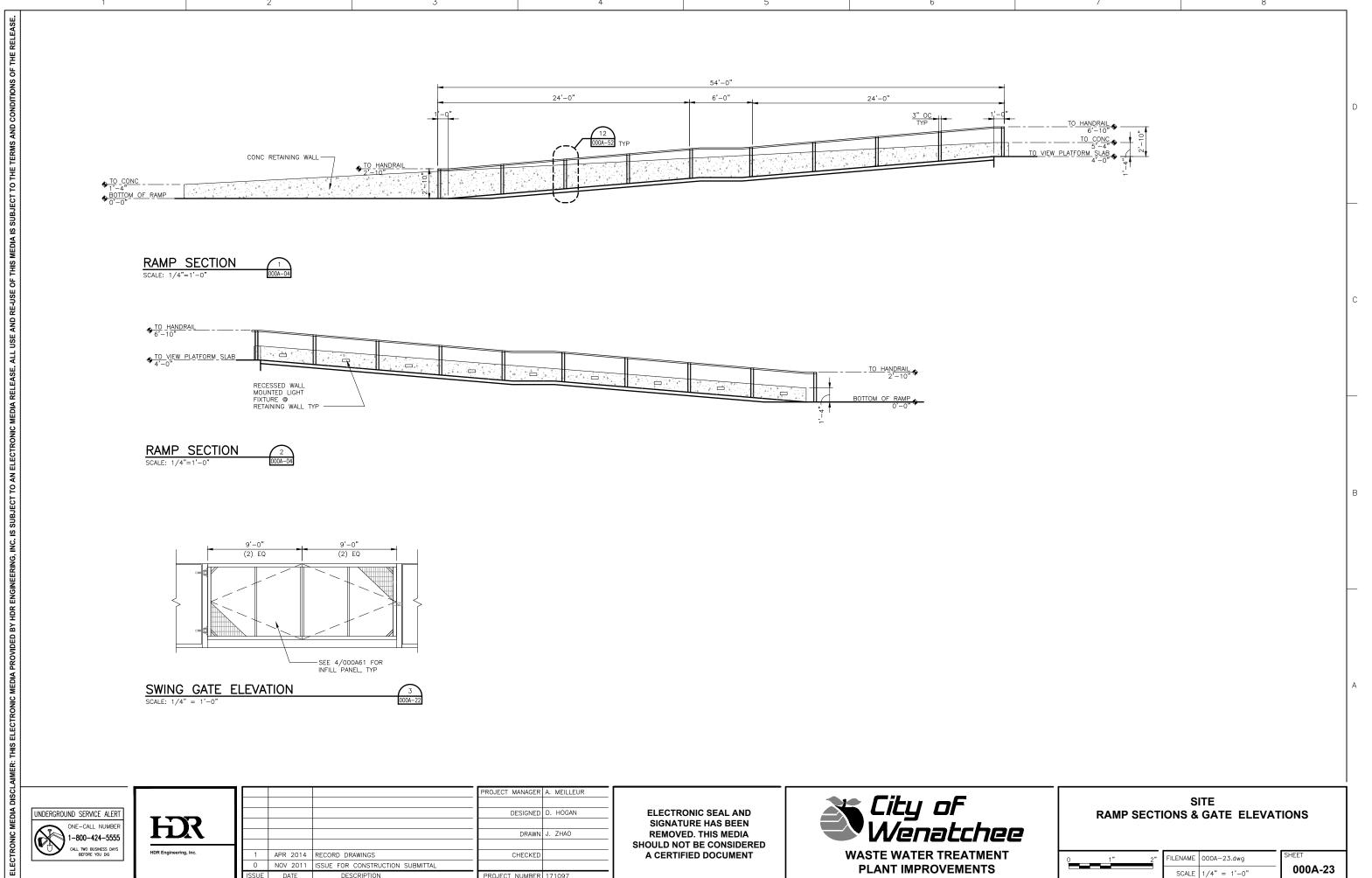


ARCHITECTURE		
EXISTING BUILDING MODIFICATIONS 6		

ILENAME	000A-12.dwg
SCALE	NOT TO SCALE







ISSUE DATE

DESCRIPTION

PROJECT NUMBER 171097

PLANT IMPROVEMENTS

000A-23

SCALE 1/4" = 1'-0"

